

## Disclaimer

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

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

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

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

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## Overview for Request cder\_mpl2p\_wp041

**Request ID:** cder\_mpl2p\_wp041\_nsdv\_v01

**Request Description:** This analysis supports the U.S. Food and Drug Administration (FDA)'s participation in the European Medicines Agency (EMA)-funded project, COVID-19 infection and medicines in pregnancy (CONSIGN)<sup>1</sup>, to understand the natural history of COVID-19 in pregnant patients. In this report, we completed the following objectives: A) to estimate the prevalence of adverse infant outcomes by trimester of COVID-19 identification and by COVID-19 severity among pregnant patients with COVID-19; B) to evaluate the impact of COVID-19 on adverse infant outcomes comparing pregnant patients with COVID-19 1:1 propensity score (PS)-matched to those pregnant patients without COVID-19; and C) to evaluate the impact of medications used to treat COVID-19 on adverse infant outcomes by assessing incidence of adverse infant outcome among pregnant patients with COVID-19 that had medication use in the 30 days pre-COVID-19 or post-COVID-19 and those not exposed to medications in the 30 days pre- or post-COVID-19. This report supports Aim 3 of the COVID-19 pregnancy study protocol.

**Sentinel Modular Program Tool Used:** Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis (PSA) tools with ad hoc programming, version 12.0.0. This is a Type 4 analysis using the PSA module in the Query Request Package (QRP) documentation.

**Data Source:** We distributed this request to four Sentinel Data Partners (DP) on June 30, 2023, including Mother-Infant Linkage (MIL) data from January 1, 2020 to December 31, 2022. Four participating DPs are national health plans contributing to the MIL data in Sentinel Distributed Database (SDD). Query period end dates were selected based on inpatient (IP) data availability per DP. See Appendix A for a list of dates of available data.

**Study Design:** We identified cohorts of pregnant patients with COVID-19 in each pregnancy-related time period, including the following: 1) COVID-19 in the first trimester; 2) in the second trimester; 3) in the third trimester; and 4) any time during pregnancy. As the comparator cohort, we identified pregnant patients with live birth delivery who had no evidence of COVID-19 during pregnancy. We required all singleton pregnancies with live birth delivery to be linked to an infant record as per the Sentinel Common Data Model (SCDM) MIL Table.<sup>2</sup> We conducted a PSA using 1:1 PS matching pregnant patients with COVID-19 in each pregnancy-related time to pregnant patients without COVID-19. In each comparison we estimated the risk of various infant health outcomes of interest (HOI). We also described COVID-19 severity measures, maternal at-risk conditions, and maternal obstetric conditions. We characterized utilization of various medications outlined in the CONSIGN protocol, potential COVID-19 medications, and various vaccinations throughout pregnancy.

**Cohort Eligibility Criteria:** We restricted eligible females to those with a singleton live birth delivery linked to an infant per the Sentinel MIL Table<sup>2</sup>. We included patients aged 12-55 years and used the following age groups: 12-24, 25-39, and 40-55 years. We required eligible patients to be continuously enrolled in health plans with medical and drug coverage for at least 484 days prior to live birth delivery, during which gaps in coverage of up to 45 days were allowed. We excluded patients with evidence of a live birth delivery, stillbirth delivery, or spontaneous abortion in the 301 days prior to live birth delivery of interest. Patients could contribute only the first valid pregnancy during the query period.

**Pregnancy Episode Creation:** We identified singleton pregnancies ending in a live birth delivery in the inpatient (IP) care setting using the MIL Table<sup>2</sup>. The MIL Table identifies live birth deliveries and matches mother patient IDs to infant patient IDs when possible. Live birth deliveries are eligible for inclusion in 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 woman was between 10 and 54 years of age, there was no evidence of delivery in the prior 180 days, and the woman had at least 180 days of continuous medical coverage, allowing for gaps up to 45 days, through the delivery date.

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We used a validated algorithm from Sentinel's Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP)<sup>3</sup> to estimate the length of pregnancy episodes via gestational age codes, including pre-/postterm delivery codes that occurred within +/-7 days of a delivery date in the inpatient care setting. In the absence of pre-/postterm codes, pregnancy duration was set to 273 days.

See Appendix B for a list of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes used to define live birth delivery. See Appendix C for a list of ICD-10-CM, ICD-10-PCS, and CPT-4 codes used to define pregnancy incidence criteria. See Appendix D for a list of ICD-10-CM codes and

**COVID-19 Identification:** We defined unique cohorts of COVID-19 in pregnancy-related time periods of interest defined relative to the estimated pregnancy start date: 1) COVID-19 in the first trimester [date of estimated pregnancy start date until +90 days after]; 2) in the second trimester [+91 days to +180 days after estimated pregnancy start date]; 3) in the third trimester [+181 days after estimated pregnancy start date until admission date for live birth delivery]; and 4) any time during pregnancy [-183 days prior to estimated pregnancy until admission date for live birth delivery]. We included patients with only the first valid COVID-19 index date per evaluation period of interest; e.g. if a patient had a COVID-19 diagnosis in both the first and second trimesters, the patient was included in only the first trimester cohort.

COVID-19 identification was defined as the first occurrence of any of the following: A) a COVID-19 specific diagnosis (U07.1) in any care setting; B) a broadly defined COVID-19 diagnosis (B97.21, B97.29, B34.2, or J12.81) in the IP or institutional stay (IS) care setting; or C) specimen collection for a positive SARS-CoV-2 nucleic acid amplification test (NAAT) in any care setting. The index date of positive SARS-CoV-2 NAAT test followed the following sequence for processing multiple calendar dates, if applicable: A) date lab was performed > B) date lab was ordered > C) date lab result was available. See Appendix E for a list of ICD-10-CM diagnosis codes and Appendix F for a list of Logical Observation Identifiers Names and Codes (LOINC) used to identify the tests for SARS-CoV-2.

**Propensity Score Estimation:** There were four comparisons of interest:

- 1) pregnant patients with COVID-19 in the first trimester to pregnant patients without COVID-19 during pregnancy;
- 2) pregnant patients with COVID-19 in the second trimester to pregnant patients without COVID-19 during pregnancy;
- 3) pregnant patients with COVID-19 in the third trimester to pregnant patients without COVID-19 during pregnancy;
- 4) pregnant patients with COVID-19 any time during pregnancy to pregnant patients without COVID-19 during pregnancy

For each of the four comparisons, we fit a logistic regression model to estimate the PS based on matching factors and potential confounders. To establish a temporal matching factor throughout the COVID-19 pandemic, we required the matched referent pregnant patient without COVID-19 to have estimated pregnancy start date within +/- 14 days of the estimated pregnancy start date of the pregnant patient with COVID-19. We required the matched referent pregnant patient without COVID-19 to have the same categorical pregnancy duration (preterm, term, postterm, or unknown term) as the categorical pregnancy duration of the pregnant patient with COVID-19. We also required the matched referent patient without COVID-19 to have the same categorical maternal age (12-24, 25-39, 40-54 years) at estimated pregnancy start date as the pregnant patient with COVID-19; mean maternal age as a continuous variable was not included in the model. We included the following covariates in the PS model: evidence of endocrine disorders (including diabetes mellitus and obesity) and respiratory diseases (including asthma, chronic obstructive pulmonary disease, and other chronic respiratory diseases) diagnosed in the 183 days pre-pregnancy period or during the first trimester. The matching ratio for the PSA was 1:1 and the matching caliper was 0.05. Pregnant patients with and without COVID-19 were nearest neighbor matched without replacement, meaning that each referent patient without COVID-19 was matched one time, at most, to a pregnant patient with COVID-19.

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**Neonatal Health Outcomes of Interest:** We estimated the risk of various neonatal HOIs among maternal-infant pairs in each comparison of interest. The HOIs included the following: 1) low birth weight and 2) small for gestational age observed in the seven days after live birth delivery in either the mother or the infant claims; 3) microcephaly and 4) major congenital malformation (MCM)<sup>4</sup> observed in the 90 days after live birth delivery in only the infant claims. A sensitivity definition of MCM required two diagnostic occurrences to be observed in the 90 days after live birth delivery. See Appendix G for a list of ICD-10-CM diagnosis codes used to define neonatal HOIs.

**Hierarchical COVID-19 Severity:** We characterized mutually exclusive descriptors of COVID-19 severity in the same obstetric-related period of interest as COVID-19 identification. The numerically highest endpoint took precedent in establishing the hierarchy per patient. Levels 2-5 are severe endpoints as hospitalized diagnoses; level 1 is non-severe.

- Level 5: Hospitalization for COVID-19 with expired discharge status (death);
- Level 4: Hospitalization for COVID-19 with acute respiratory distress syndrome (ARDS) or requiring ventilation;
- Level 3: Hospitalization for COVID-19 with an intensive care unit (ICU) admission;
- Level 2: Hospitalization for COVID-19 with co-occurring pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy;
- Level 1: Any other occurrence of COVID-19 (non-severe)

See Appendix H for a list of ICD-10-CM, ICD-10-PCS, CPT-4, Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Category III (CPT Category III), and Revenue codes used to define COVID-19 severity.

**Oxygenation:** We identified evidence of oxygenation in the same obstetric-related period of interest as COVID-19 identification. Supplemental oxygen was recorded in any care setting. High-flow oxygen or non-invasive mechanical ventilation and invasive mechanical ventilation or extracorporeal membrane oxygenation (ECMO) were recorded in the IP or IS care setting. See Appendix I for a list of ICD-10-CM, ICD-10-PCS, HCPCS, CPT Category II, CPT-4, and Revenue codes used to define oxygenation.

**Baseline Characteristics:** We described various maternal pre-existing or at-risk medical conditions that were recorded in the pre-pregnancy period or in the first trimester [-183 days to +90 days relative to the estimated pregnancy start date]. We also described maternal obstetric conditions that were recorded in the pre-pregnancy period [-183 days to -1 day before estimated pregnancy start date] and in the [+/-7 days relative to live birth delivery]. We characterized the Bateman obstetric comorbidity index<sup>5</sup>, health care utilization, and drug utilization in the pre-pregnancy and pregnancy periods [-183 days before estimated pregnancy start date until live birth delivery].

See Appendix J for a list of ICD-10-CM, ICD-10-PCS, HCPCS, CPT Category II, and CPT-4 codes used to define maternal pre-existing or at-risk medical conditions. See Appendix K for a list of ICD-10-CM, HCPCS, and CPT-4 codes used to define maternal obstetric conditions. See Appendix L for a list of ICD-10-CM codes used to define the Bateman obstetric comorbidity index.

**Medical Product Utilization:** In the cohorts of pregnant patients with COVID-19, we identified evidence of dispensing or administration dates in the [-30 days to -1 day before COVID-19 index date] and [on the date of COVID-19 to +30 days after COVID-19]. We also characterized the counter of no evidence of medication use in the 30 days prior and in the 30 days post COVID-19, respectively. For the referent cohorts of 1:1 matched pregnant patients without COVID-19, we used the calendar date of COVID-19 in the matched COVID-19 cohorts as a reference calendar date for anchoring medication use in the 30 days before and in the 30 days after. We did not create treatment episodes. We characterized utilization of various medications outlined in the CONSIGN protocol, potential COVID-19 medications, and various vaccinations. See Appendices M, O, and Q for a list of generic and brand names and non-proprietary names used to define medical products. See Appendices N, P, and R for a list of ICD-10-PCS, HCPCS, CPT Category II, and CPT-4 codes used to define medical products.

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**Medical Product Utilization by Neonatal HOI:** For each maternal-infant pair with COVID-19 and a neonatal HOI, we characterized use of CONSIGN medications and potential COVID-19 medications in the 30 days before and the 30 days after (and including) the date of COVID-19, stratified by trimester of COVID-19 identification.

**For detailed specifications of parameters used in the analysis, please refer to Appendix S to define cohort entry and PS matching, Appendix T to define baseline characteristics, Appendix U to define medical product utilization, and Appendix V for a design diagram.**

**Limitations:** Algorithms used to define live birth delivery and gestational age 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](mailto:info@sentinelssystem.org)) for questions and to provide comments/suggestions for future enhancements to this document.

<sup>1</sup>CONSIGN study: COVID-19 infection and medicines in pregnancy- a multinational registry based study. European Network of Centres for Pharmacoepidemiology & Pharmacovigilance. Accessed March 15, 2022. <http://www.encepp.eu/encepp/viewResource.htm?id=39439>

<sup>2</sup>Pregnancy Episodes Cohort Identification Strategy. Sentinel Initiative. Available from:

<https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse/files/file150-type04-preqepi.md>

<sup>3</sup>Li 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.

<sup>4</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

<sup>5</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* **2013**;122(5):957-965.

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<b><u>Glossary CIDA</u></b>	List of Terms Found in This Report Using Cohort Identification and Descriptive Analysis (CIDA) Module
<b><u>Glossary PSA</u></b>	List of Terms Found in This Report Using Propensity Score Analysis (PSA) Module
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<b><u>Table 1b</u></b>	Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05
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**Figure 2a** Forest Plot of Effect Estimates for Risk of Neonatal Low Birth Weight Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05

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**Figure 2c** Forest Plots of Effect Estimates for Risk of Neonatal Microcephaly Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05

**Figure 2d** Forest Plots of Effect Estimates for Risk of Neonatal Major Congenital Malformation (1 Diagnostic Occurrence) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05

**Figure 2e** Forest Plots of Effect Estimates for Risk of Neonatal Major Congenital Malformation (2 Diagnostic Occurrences) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

\*all terms may not be used in this report

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

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

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

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

**Individual Level Data Return** - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output. Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

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

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

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

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

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

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

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

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

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

\*all terms may not be used in this report

**Table 1a. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	4,314	-	259,927	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.8	4.4	32.2	4.3	-0.406	-0.094
Maternal age categories (years)	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	251	5.8%	11,441	4.4%	1.417	0.064
25-39	3,920	90.9%	238,729	91.8%	-0.978	-0.035
40-55	143	3.3%	9,757	3.8%	-0.439	-0.024
Year of delivery date						
2020	75	1.7%	112,031	43.1%	-41.362	-1.142
2021	2,602	60.3%	104,990	40.4%	19.923	0.407
2022	1,637	37.9%	42,906	16.5%	21.439	0.496
Race categories						
American Indian or Alaska Native	0	0.0%	49	0.0%	-0.019	-0.019
Asian	54	1.3%	4,314	1.7%	-0.408	-0.034
Black or African American	38	0.9%	1,570	0.6%	0.277	0.032
Native Hawaiian or Other Pacific Islander	2	0.0%	69	0.0%	0.020	0.010
White	407	9.4%	19,344	7.4%	1.992	0.072
Multi-racial	59	1.4%	2,343	0.9%	0.466	0.044
Unknown	3,754	87.0%	232,238	89.3%	-2.328	-0.072
Hispanic	116	2.7%	3,622	1.4%	1.295	0.092
<b>Month of COVID-19 identification</b>						
December 2019	0	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	13	0.3%	N/A	-	-	-
April 2020	40	0.9%	N/A	-	-	-
May 2020	52	1.2%	N/A	-	-	-
June 2020	83	1.9%	N/A	-	-	-
July 2020	127	2.9%	N/A	-	-	-
August 2020	107	2.5%	N/A	-	-	-
September 2020	130	3.0%	N/A	-	-	-
October 2020	211	4.9%	N/A	-	-	-

**Table 1a. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
November 2020	424	9.8%	N/A	-	-	-
December 2020	546	12.7%	N/A	-	-	-
January 2021	464	10.8%	N/A	-	-	-
February 2021	196	4.5%	N/A	-	-	-
March 2021	148	3.4%	N/A	-	-	-
April 2021	113	2.6%	N/A	-	-	-
May 2021	62	1.4%	N/A	-	-	-
June 2021	44	1.0%	N/A	-	-	-
July 2021	118	2.7%	N/A	-	-	-
August 2021	256	5.9%	N/A	-	-	-
September 2021	227	5.3%	N/A	-	-	-
October 2021	131	3.0%	N/A	-	-	-
November 2021	143	3.3%	N/A	-	-	-
December 2021	311	7.2%	N/A	-	-	-
January 2022	326	7.6%	N/A	-	-	-
February 2022	35	0.8%	N/A	-	-	-
March 2022	6	0.1%	N/A	-	-	-
April 2022	1	0.0%	N/A	-	-	-
May 2022	0	0.0%	N/A	-	-	-
June 2022	0	0.0%	N/A	-	-	-
July 2022	0	0.0%	N/A	-	-	-
August 2022	0	0.0%	N/A	-	-	-
September 2022	0	0.0%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.5	1.6	39.7	1.5	-0.164	-0.107
Pregnancy duration categories	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	298	6.9%	14,446	5.6%	1.350	0.056
Term	3,044	70.6%	177,616	68.3%	2.228	0.048
Postterm	918	21.3%	64,059	24.6%	-3.365	-0.080
Unknown term	54	1.3%	3,806	1.5%	-0.213	-0.018



**Table 1a. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the first trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	12	0.3%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	3	0.1%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	4	0.1%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	4,295	99.6%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	19	0.4%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the first trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	2	0.0%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	27	0.6%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	10	0.2%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	12	0.3%	262	0.1%	0.177	0.041
<b>Oxygenation in the first trimester</b>						
Supplemental oxygen	19	0.4%	37	0.0%	0.426	0.090
High-flow oxygen or non-invasive mechanical ventilation	0	0.0%	1	0.0%	0.000	-0.003
Invasive mechanical ventilation or ECMO	0	0.0%	3	0.0%	-0.001	-0.005
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	40	0.9%	1,608	0.6%	0.309	0.035
Cardiovascular and other vascular disease	55	1.3%	1,942	0.7%	0.528	0.053
Congenital heart disease	16	0.4%	794	0.3%	0.065	0.011
Cardiovascular disease	35	0.8%	893	0.3%	0.468	0.062
Other vascular disease	7	0.2%	430	0.2%	-0.003	-0.001
<b>Endocrine disorders</b>	<b>757</b>	<b>17.5%</b>	<b>29,553</b>	<b>11.4%</b>	<b>6.178</b>	<b>0.176</b>
Diabetes mellitus	116	2.7%	4,750	1.8%	0.861	0.058
<b>Obesity</b>	<b>698</b>	<b>16.2%</b>	<b>26,441</b>	<b>10.2%</b>	<b>6.007</b>	<b>0.178</b>
Hypertension	195	4.5%	7,032	2.7%	1.815	0.097
Immunological diseases	25	0.6%	623	0.2%	0.340	0.053

**Table 1a. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Human immunodeficiency virus	9	0.2%	219	0.1%	0.124	0.033
Immunosuppression	17	0.4%	406	0.2%	0.238	0.045
Mental disorders	445	10.3%	21,364	8.2%	2.096	0.072
Renal disorders: chronic kidney disease	52	1.2%	1,576	0.6%	0.599	0.063
<b>Respiratory diseases</b>	<b>327</b>	<b>7.6%</b>	<b>11,244</b>	<b>4.3%</b>	<b>3.254</b>	<b>0.138</b>
Asthma	270	6.3%	9,507	3.7%	2.601	0.120
Chronic obstructive pulmonary disease	51	1.2%	1,709	0.7%	0.525	0.055
Other chronic respiratory diseases	63	1.5%	2,002	0.8%	0.690	0.066
Rheumatic diseases	205	4.8%	8,953	3.4%	1.308	0.066
Sickle cell disease	8	0.2%	264	0.1%	0.084	0.022
Smoking	168	3.9%	6,596	2.5%	1.357	0.077
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	103	2.4%	5,484	2.1%	0.278	0.019
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	1,445	33.5%	79,907	30.7%	2.754	0.059
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.6	2.0	1.4	1.8	0.232	0.120
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	1,581	36.6%	103,860	40.0%	-3.309	-0.068
1-2	1,787	41.4%	109,265	42.0%	-0.614	-0.012
3-4	527	12.2%	28,399	10.9%	1.290	0.040
5-6	250	5.8%	12,113	4.7%	1.135	0.051
7-8	119	2.8%	4,453	1.7%	1.045	0.071
9-10	34	0.8%	1,259	0.5%	0.304	0.038
>10	16	0.4%	578	0.2%	0.149	0.027
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	24.5	16.3	19.8	13.7	4.665	0.309
Mean number of emergency room encounters	0.7	1.3	0.4	0.9	0.326	0.284
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.2	0.018	0.072

**Table 1a. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.014
Mean number of other ambulatory encounters	7.0	6.3	5.9	5.5	1.132	0.191
Mean number of unique drug classes dispensed	4.9	4.1	3.8	3.4	1.145	0.302
Mean number of unique generics dispensed	5.3	4.6	4.1	3.8	1.250	0.294
Mean number of unique dispensings	10.8	12.0	8.7	10.9	2.150	0.187

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1b. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	4,310	-	4,310	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.8	4.4	32.3	4.4	-0.568	-0.129
Maternal age categories (years)*	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	248	5.8%	248	5.8%	0.000	0.000
25-39	3,919	90.9%	3,919	90.9%	0.000	0.000
40-55	143	3.3%	143	3.3%	0.000	0.000
Year of delivery date						
2020	75	1.7%	77	1.8%	-0.046	-0.004
2021	2,599	60.3%	2,601	60.3%	-0.046	-0.001
2022	1,636	38.0%	1,632	37.9%	0.093	0.002
Race categories						
American Indian or Alaska Native	0	0.0%	2	0.0%	-0.046	-0.030
Asian	54	1.3%	94	2.2%	-0.928	-0.071
Black or African American	38	0.9%	32	0.7%	0.139	0.016
Native Hawaiian or Other Pacific Islander	2	0.0%	0	0.0%	0.046	0.030
White	407	9.4%	382	8.9%	0.580	0.020
Multi-racial	59	1.4%	50	1.2%	0.209	0.019
Unknown	3,750	87.0%	3,750	87.0%	0.000	0.000
Hispanic	116	2.7%	85	2.0%	0.719	0.048
<b>Month of COVID-19 identification</b>						
December 2019	0	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	13	0.3%	N/A	-	-	-
April 2020	40	0.9%	N/A	-	-	-
May 2020	52	1.2%	N/A	-	-	-
June 2020	83	1.9%	N/A	-	-	-
July 2020	127	2.9%	N/A	-	-	-
August 2020	107	2.5%	N/A	-	-	-
September 2020	130	3.0%	N/A	-	-	-
October 2020	211	4.9%	N/A	-	-	-

**Table 1b. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
November 2020	423	9.8%	N/A	-	-	-
December 2020	545	12.6%	N/A	-	-	-
January 2021	464	10.8%	N/A	-	-	-
Feb-21	196	4.5%	N/A	-	-	-
March 2021	148	3.4%	N/A	-	-	-
April 2021	113	2.6%	N/A	-	-	-
May 2021	61	1.4%	N/A	-	-	-
June 2021	44	1.0%	N/A	-	-	-
July 2021	118	2.7%	N/A	-	-	-
August 2021	256	5.9%	N/A	-	-	-
September 2021	227	5.3%	N/A	-	-	-
October 2021	131	3.0%	N/A	-	-	-
November 2021	143	3.3%	N/A	-	-	-
December 2021	311	7.2%	N/A	-	-	-
January 2022	325	7.5%	N/A	-	-	-
February 202	35	0.8%	N/A	-	-	-
March 2022	6	0.1%	N/A	-	-	-
April 2022	1	0.0%	N/A	-	-	-
May 2022	0	0.0%	N/A	-	-	-
June 2022	0	0.0%	N/A	-	-	-
July 2022	0	0.0%	N/A	-	-	-
August 2022	0	0.0%	N/A	-	-	-
September 2022	0	0.0%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.6	1.6	39.6	1.7	-0.002	-0.001
Pregnancy duration categories	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	296	6.9%	296	6.9%	0.000	0.000
Term	3,043	70.6%	3,043	70.6%	0.000	0.000
Postterm	918	21.3%	918	21.3%	0.000	0.000
Unknown term	53	1.2%	53	1.2%	0.000	0.000

**Table 1b. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the first trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	12	0.3%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	3	0.1%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	4	0.1%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	4,291	99.6%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	19	0.4%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the first trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	2	0.0%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	27	0.6%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	10	0.2%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	12	0.3%	4	0.1%	0.186	0.043
<b>Oxygenation in the first trimester</b>						
Supplemental oxygen	19	0.4%	0	0.0%	0.441	0.094
High-flow oxygen or non-invasive mechanical ventilation	0	0.0%	0	0.0%	0.000	-
Invasive mechanical ventilation or ECMO	0	0.0%	0	0.0%	0.000	-
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	40	0.9%	35	0.8%	0.116	0.012
Cardiovascular and other vascular disease	55	1.3%	30	0.7%	0.580	0.059
Congenital heart disease	16	0.4%	10	0.2%	0.139	0.025
Cardiovascular disease	35	0.8%	12	0.3%	0.534	0.073
Other vascular disease	7	0.2%	9	0.2%	-0.046	-0.011
Endocrine disorders*	756	17.5%	768	17.8%	-0.278	-0.007
Diabetes mellitus	116	2.7%	132	3.1%	-0.371	-0.022
Obesity	697	16.2%	677	15.7%	0.464	0.013
Hypertension	194	4.5%	145	3.4%	1.137	0.059
Immunological diseases	25	0.6%	8	0.2%	0.394	0.064
Human immunodeficiency virus	9	0.2%	0	0.0%	0.209	0.065

**Table 1b. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Immunosuppression	17	0.4%	8	0.2%	0.209	0.039
Mental disorders	445	10.3%	419	9.7%	0.603	0.020
Renal disorders: chronic kidney disease	52	1.2%	35	0.8%	0.394	0.039
Respiratory diseases*	327	7.6%	320	7.4%	0.162	0.006
Asthma	270	6.3%	300	7.0%	-0.696	-0.028
Chronic obstructive pulmonary disease	51	1.2%	21	0.5%	0.696	0.077
Other chronic respiratory diseases	63	1.5%	30	0.7%	0.766	0.074
Rheumatic diseases	205	4.8%	161	3.7%	1.021	0.051
Sickle cell disease	8	0.2%	6	0.1%	0.046	0.012
Smoking	167	3.9%	130	3.0%	0.858	0.047
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	103	2.4%	78	1.8%	0.580	0.040
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	1,443	33.5%	1,421	33.0%	0.510	0.011
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.6	2.0	1.6	2.0	0.004	0.002
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	1,581	36.7%	1,502	34.8%	1.833	0.038
1-2	1,784	41.4%	1,870	43.4%	-1.995	-0.040
3-4	526	12.2%	528	12.3%	-0.046	-0.001
5-6	250	5.8%	258	6.0%	-0.186	-0.008
7-8	119	2.8%	112	2.6%	0.162	0.010
9-10	34	0.8%	24	0.6%	0.232	0.028
>10	16	0.4%	16	0.4%	0.000	0.000
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	24.5	16.3	21.4	15.0	3.159	0.202
Mean number of emergency room encounters	0.7	1.3	0.4	0.9	0.304	0.264
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.2	0.011	0.043
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.015

**Table 1b. Baseline Characteristics of Pregnant Patients With COVID-19 in the First Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the first trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the first trimester and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of other ambulatory encounters	7.0	6.3	6.3	5.5	0.687	0.116
Mean number of unique drug classes dispensed	4.9	4.1	4.0	3.5	0.981	0.256
Mean number of unique generics dispensed	5.3	4.6	4.3	3.9	1.050	0.245
Mean number of unique dispensings	10.8	12.0	9.2	11.5	1.627	0.138

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

\*Covariates followed by an asterisk (\*) were included in the PS-adjusted model, including mean maternal age, endocrine disorders, and respiratory diseases.

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.



**Table 1c. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	6,302	-	259,927	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.8	4.3	32.2	4.3	-0.354	-0.082
Maternal age categories (years)	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	371	5.9%	11,441	4.4%	1.485	0.067
25-39	5,745	91.2%	238,729	91.8%	-0.683	-0.025
40-55	186	3.0%	9,757	3.8%	-0.802	-0.045
Year of delivery date						
2020	316	5.0%	112,031	43.1%	-38.087	-0.995
2021	2,810	44.6%	104,990	40.4%	4.197	0.085
2022	3,176	50.4%	42,906	16.5%	33.890	0.770
Race categories						
American Indian or Alaska Native	0	0.0%	49	0.0%	-0.019	-0.019
Asian	76	1.2%	4,314	1.7%	-0.454	-0.038
Black or African American	42	0.7%	1,570	0.6%	0.062	0.008
Native Hawaiian or Other Pacific Islander	0	0.0%	69	0.0%	-0.027	-0.023
White	584	9.3%	19,344	7.4%	1.825	0.066
Multi-racial	64	1.0%	2,343	0.9%	0.114	0.012
Unknown	5,536	87.8%	232,238	89.3%	-1.502	-0.047
Hispanic	133	2.1%	3,622	1.4%	0.717	0.055
<b>Month of COVID-19 identification</b>						
December 2019	1	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	12	0.2%	N/A	-	-	-
April 2020	38	0.6%	N/A	-	-	-
May 2020	47	0.7%	N/A	-	-	-
June 2020	68	1.1%	N/A	-	-	-
July 2020	118	1.9%	N/A	-	-	-
August 2020	79	1.3%	N/A	-	-	-
September 2020	80	1.3%	N/A	-	-	-
October 2020	167	2.6%	N/A	-	-	-

**Table 1c. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
November 2020	426	6.8%	N/A	-	-	-
December 2020	551	8.7%	N/A	-	-	-
January 2021	440	7.0%	N/A	-	-	-
February 2021	229	3.6%	N/A	-	-	-
March 2021	199	3.2%	N/A	-	-	-
April 2021	186	3.0%	N/A	-	-	-
May 2021	97	1.5%	N/A	-	-	-
June 2021	58	0.9%	N/A	-	-	-
July 2021	137	2.2%	N/A	-	-	-
August 2021	341	5.4%	N/A	-	-	-
September 2021	256	4.1%	N/A	-	-	-
October 2021	160	2.5%	N/A	-	-	-
November 2021	212	3.4%	N/A	-	-	-
December 2021	755	12.0%	N/A	-	-	-
January 2022	1,241	19.7%	N/A	-	-	-
February 2022	199	3.2%	N/A	-	-	-
March 2022	71	1.1%	N/A	-	-	-
April 2022	61	1.0%	N/A	-	-	-
May 2022	49	0.8%	N/A	-	-	-
June 2022	22	0.3%	N/A	-	-	-
July 2022	2	0.0%	N/A	-	-	-
August 2022	0	0.0%	N/A	-	-	-
September 2022	0	0.0%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.6	1.6	39.7	1.5	-0.144	-0.094
<b>Pregnancy duration categories</b>	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	440	7.0%	14,446	5.6%	1.424	0.059
Term	4,422	70.2%	177,616	68.3%	1.835	0.040
Postterm	1,365	21.7%	64,059	24.6%	-2.985	-0.071
Unknown term	75	1.2%	3,806	1.5%	-0.274	-0.024

**Table 1c. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the second trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	44	0.7%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	9	0.1%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	20	0.3%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	6,229	98.8%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	73	1.2%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the second trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	0	0.0%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	18	0.3%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	87	1.4%	N/A	-	-	-
<b>Hospitalization for an obstetric visit without COVID-19</b>	<b>107</b>	<b>1.7%</b>	<b>1,068</b>	<b>0.4%</b>	<b>1.287</b>	<b>0.126</b>
<b>Oxygenation in the second trimester</b>						
Supplemental oxygen	22	0.3%	33	0.0%	0.336	0.079
High-flow oxygen or non-invasive mechanical ventilation	8	0.1%	3	0.0%	0.126	0.050
Invasive mechanical ventilation or ECMO	10	0.2%	4	0.0%	0.157	0.056
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	51	0.8%	1,608	0.6%	0.191	0.023
Cardiovascular and other vascular disease	55	0.9%	1,942	0.7%	0.126	0.014
Congenital heart disease	15	0.2%	794	0.3%	-0.067	-0.013
Cardiovascular disease	32	0.5%	893	0.3%	0.164	0.025
Other vascular disease	11	0.2%	430	0.2%	0.009	0.002
<b>Endocrine disorders</b>	<b>1,060</b>	<b>16.8%</b>	<b>29,553</b>	<b>11.4%</b>	<b>5.450</b>	<b>0.157</b>
Diabetes mellitus	179	2.8%	4,750	1.8%	1.013	0.067
<b>Obesity</b>	<b>944</b>	<b>15.0%</b>	<b>26,441</b>	<b>10.2%</b>	<b>4.807</b>	<b>0.145</b>
Hypertension	235	3.7%	7,032	2.7%	1.024	0.058
Immunological diseases	19	0.3%	623	0.2%	0.062	0.012

**Table 1c. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Human immunodeficiency virus	8	0.1%	219	0.1%	0.043	0.013
Immunosuppression	11	0.2%	406	0.2%	0.018	0.005
Mental disorders	613	9.7%	21,364	8.2%	1.508	0.053
Renal disorders: chronic kidney disease	55	0.9%	1,576	0.6%	0.266	0.031
Respiratory diseases	313	5.0%	11,244	4.3%	0.641	0.030
Asthma	276	4.4%	9,507	3.7%	0.722	0.037
Chronic obstructive pulmonary disease	42	0.7%	1,709	0.7%	0.009	0.001
Other chronic respiratory diseases	54	0.9%	2,002	0.8%	0.087	0.010
Rheumatic diseases	241	3.8%	8,953	3.4%	0.380	0.020
Sickle cell disease	9	0.1%	264	0.1%	0.041	0.012
Smoking	202	3.2%	6,596	2.5%	0.668	0.040
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	114	1.8%	5,484	2.1%	-0.301	-0.022
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	2,035	32.3%	79,907	30.7%	1.549	0.033
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.6	2.0	1.4	1.8	0.185	0.097
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	2,361	37.5%	103,860	40.0%	-2.493	-0.051
1-2	2,613	41.5%	109,265	42.0%	-0.574	-0.012
3-4	728	11.6%	28,399	10.9%	0.626	0.020
5-6	370	5.9%	12,113	4.7%	1.211	0.054
7-8	163	2.6%	4,453	1.7%	0.873	0.060
9-10	36	0.6%	1,259	0.5%	0.087	0.012
>10	31	0.5%	578	0.2%	0.270	0.045
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	23.3	14.2	19.8	13.7	3.431	0.245
Mean number of emergency room encounters	0.7	1.4	0.4	0.9	0.297	0.255
Mean number of inpatient hospital encounters	1.1	0.3	1.0	0.2	0.031	0.107

**Table 1c. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of other ambulatory encounters	7.1	6.4	5.9	5.5	1.201	0.201
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.008
Mean number of unique drug classes dispensed	4.7	3.9	3.8	3.4	0.857	0.232
Mean number of unique generics dispensed	5.0	4.4	4.1	3.8	0.935	0.227
Mean number of unique dispensings	10.3	11.8	8.7	10.9	1.574	0.138

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1d. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	6,298	-	6,298	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.8	4.3	32.0	4.4	-0.196	-0.045
Maternal age categories (years)*	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	367	5.8%	367	5.8%	0.000	0.000
25-39	5,745	91.2%	5,745	91.2%	0.000	0.000
40-55	186	3.0%	186	3.0%	0.000	0.000
Year of delivery date						
2020	316	5.0%	323	5.1%	-0.111	-0.005
2021	2,809	44.6%	2,799	44.4%	0.159	0.003
2022	3,173	50.4%	3,176	50.4%	-0.048	-0.001
Race categories						
American Indian or Alaska Native	0	0.0%	1	0.0%	-0.016	-0.018
Asian	76	1.2%	113	1.8%	-0.587	-0.048
Black or African American	42	0.7%	29	0.5%	0.206	0.028
Native Hawaiian or Other Pacific Islander	0	0.0%	3	0.0%	-0.048	-0.031
White	584	9.3%	491	7.8%	1.477	0.053
Multi-racial	64	1.0%	66	1.0%	-0.032	-0.003
Unknown	5,532	87.8%	5,595	88.8%	-1.000	-0.031
Hispanic	133	2.1%	88	1.4%	0.715	0.054
<b>Month of COVID-19 identification</b>						
December 2019	1	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	12	0.2%	N/A	-	-	-
April 2020	38	0.6%	N/A	-	-	-
May 2020	47	0.7%	N/A	-	-	-
June 2020	68	1.1%	N/A	-	-	-
July 2020	118	1.9%	N/A	-	-	-
August 2020	79	1.3%	N/A	-	-	-
September 2020	80	1.3%	N/A	-	-	-
October 2020	167	2.7%	N/A	-	-	-

**Table 1d. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
November 2020	426	6.8%	N/A	-	-	-
December 2020	551	8.7%	N/A	-	-	-
January 2021	440	7.0%	N/A	-	-	-
February 2021	229	3.6%	N/A	-	-	-
March 2021	199	3.2%	N/A	-	-	-
April 2021	186	3.0%	N/A	-	-	-
May 2021	97	1.5%	N/A	-	-	-
June 2021	58	0.9%	N/A	-	-	-
July 2021	137	2.2%	N/A	-	-	-
August 2021	340	5.4%	N/A	-	-	-
September 2021	256	4.1%	N/A	-	-	-
October 2021	159	2.5%	N/A	-	-	-
November 2021	211	3.4%	N/A	-	-	-
December 2021	755	12.0%	N/A	-	-	-
January 2022	1,241	19.7%	N/A	-	-	-
February 2022	198	3.1%	N/A	-	-	-
March 2022	71	1.1%	N/A	-	-	-
April 2022	61	1.0%	N/A	-	-	-
May 2022	49	0.8%	N/A	-	-	-
June 2022	22	0.3%	N/A	-	-	-
July 2022	2	0.0%	N/A	-	-	-
August 2022	0	0.0%	N/A	-	-	-
September 2022	0	0.0%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.6	1.6	39.6	1.6	-0.006	-0.003
<b>Pregnancy duration categories</b>	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	439	7.0%	439	7.0%	0.000	0.000
Term	4,421	70.2%	4,421	70.2%	0.000	0.000
Postterm	1,365	21.7%	1,365	21.7%	0.000	0.000
Unknown term	73	1.2%	73	1.2%	0.000	0.000

**Table 1d. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the second trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	44	0.7%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	9	0.1%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	20	0.3%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	6,225	98.8%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	73	1.2%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the second trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	0	0.0%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	18	0.3%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	87	1.4%	N/A	-	-	-
<b>Hospitalization for an obstetric visit without COVID-19</b>	<b>107</b>	<b>1.7%</b>	<b>29</b>	<b>0.5%</b>	<b>1.238</b>	<b>0.120</b>
<b>Oxygenation in the second trimester</b>						
Supplemental oxygen	22	0.3%	2	0.0%	0.318	0.073
High-flow oxygen or non-invasive mechanical ventilation	8	0.1%	0	0.0%	0.127	0.050
Invasive mechanical ventilation or ECMO	10	0.2%	0	0.0%	0.159	0.056
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	51	0.8%	44	0.7%	0.111	0.013
Cardiovascular and other vascular disease	54	0.9%	45	0.7%	0.143	0.016
Congenital heart disease	15	0.2%	16	0.3%	-0.016	-0.003
Cardiovascular disease	31	0.5%	23	0.4%	0.127	0.019
Other vascular disease	11	0.2%	10	0.2%	0.016	0.004
Endocrine disorders*	1,059	16.8%	1,060	16.8%	-0.016	0.000
Diabetes mellitus	179	2.8%	179	2.8%	0.000	0.000
Obesity	943	15.0%	943	15.0%	0.000	0.000
Hypertension	234	3.7%	191	3.0%	0.683	0.038
Immunological diseases	19	0.3%	15	0.2%	0.064	0.012



**Table 1d. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Human immunodeficiency virus	8	0.1%	3	0.0%	0.079	0.027
Immunosuppression	11	0.2%	12	0.2%	-0.016	-0.004
Mental disorders	613	9.7%	555	8.8%	0.921	0.032
Renal disorders: chronic kidney disease	55	0.9%	48	0.8%	0.111	0.012
Respiratory diseases*	312	5.0%	320	5.1%	-0.127	-0.006
Asthma	275	4.4%	291	4.6%	-0.254	-0.012
Chronic obstructive pulmonary disease	42	0.7%	29	0.5%	0.206	0.028
Other chronic respiratory diseases	54	0.9%	34	0.5%	0.318	0.038
Rheumatic diseases	241	3.8%	230	3.7%	0.175	0.009
Sickle cell disease	9	0.1%	9	0.1%	0.000	0.000
Smoking	202	3.2%	160	2.5%	0.667	0.040
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	114	1.8%	144	2.3%	-0.476	-0.034
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	2,034	32.3%	1,957	31.1%	1.223	0.026
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.6	2.0	1.5	1.9	0.073	0.037
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	2,360	37.5%	2,390	37.9%	-0.476	-0.010
1-2	2,612	41.5%	2,640	41.9%	-0.445	-0.009
3-4	728	11.6%	735	11.7%	-0.111	-0.003
5-6	369	5.9%	354	5.6%	0.238	0.010
7-8	163	2.6%	132	2.1%	0.492	0.033
9-10	36	0.6%	29	0.5%	0.111	0.016
>10	30	0.5%	18	0.3%	0.191	0.031
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	23.3	14.2	20.7	14.0	2.575	0.182
Mean number of emergency room encounters	0.7	1.4	0.4	1.0	0.246	0.204
Mean number of inpatient hospital encounters	1.1	0.3	1.0	0.2	0.025	0.089

**Table 1d. Baseline Characteristics of Pregnant Patients With COVID-19 in the Second Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the second trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the second trimester and pregnant patients without	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.018
Mean number of other ambulatory encounters	7.1	6.4	6.4	6.0	0.660	0.107
Mean number of unique drug classes dispensed	4.7	3.9	3.9	3.6	0.770	0.204
Mean number of unique generics dispensed	5.0	4.4	4.2	4.1	0.812	0.192
Mean number of unique dispensings	10.3	11.8	8.9	11.4	1.378	0.119

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

\*Covariates followed by an asterisk (\*) were included in the PS-adjusted model, including mean maternal age, endocrine disorders, and respiratory diseases.

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1e. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	12,286	-	259,927	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.9	4.4	32.2	4.3	-0.248	-0.057
Maternal age categories (years)	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	670	5.5%	11,441	4.4%	1.052	0.049
25-39	11,141	90.7%	238,729	91.8%	-1.164	-0.041
40-55	475	3.9%	9,757	3.8%	0.112	0.006
Year of delivery date						
2020	1,831	14.9%	112,031	43.1%	-28.198	-0.654
2021	4,760	38.7%	104,990	40.4%	-1.649	-0.034
2022	5,695	46.4%	42,906	16.5%	29.847	0.679
Race categories						
American Indian or Alaska Native	5	0.0%	49	0.0%	0.022	0.013
Asian	164	1.3%	4,314	1.7%	-0.325	-0.027
Black or African American	93	0.8%	1,570	0.6%	0.153	0.019
Native Hawaiian or Other Pacific Islander	3	0.0%	69	0.0%	-0.002	-0.001
White	1,058	8.6%	19,344	7.4%	1.169	0.043
Multi-racial	135	1.1%	2,343	0.9%	0.197	0.020
Unknown	10,828	88.1%	232,238	89.3%	-1.215	-0.038
Hispanic	247	2.0%	3,622	1.4%	0.617	0.048
<b>Month of COVID-19 identification</b>						
December 2019	0	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	25	0.2%	N/A	-	-	-
April 2020	102	0.8%	N/A	-	-	-
May 2020	144	1.2%	N/A	-	-	-
June 2020	163	1.3%	N/A	-	-	-
July 2020	267	2.2%	N/A	-	-	-
August 2020	195	1.6%	N/A	-	-	-
September 2020	183	1.5%	N/A	-	-	-
October 2020	261	2.1%	N/A	-	-	-

**Table 1e. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
November 2020	490	4.0%	N/A	-	-	-
December 2020	682	5.6%	N/A	-	-	-
January 2021	638	5.2%	N/A	-	-	-
February 2021	339	2.8%	N/A	-	-	-
March 2021	316	2.6%	N/A	-	-	-
April 2021	335	2.7%	N/A	-	-	-
May 2021	208	1.7%	N/A	-	-	-
June 2021	156	1.3%	N/A	-	-	-
July 2021	257	2.1%	N/A	-	-	-
August 2021	631	5.1%	N/A	-	-	-
September 2021	508	4.1%	N/A	-	-	-
October 2021	276	2.2%	N/A	-	-	-
November 2021	310	2.5%	N/A	-	-	-
December 2021	1,010	8.2%	N/A	-	-	-
January 2022	2,110	17.2%	N/A	-	-	-
February 2022	680	5.5%	N/A	-	-	-
March 2022	351	2.9%	N/A	-	-	-
April 2022	320	2.6%	N/A	-	-	-
May 2022	531	4.3%	N/A	-	-	-
June 2022	378	3.1%	N/A	-	-	-
July 2022	281	2.3%	N/A	-	-	-
August 2022	108	0.9%	N/A	-	-	-
September 2022	31	0.3%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.7	1.4	39.7	1.5	-0.033	-0.023
<b>Pregnancy duration categories</b>	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	698	5.7%	14,446	5.6%	0.124	0.005
Term	8,577	69.8%	177,616	68.3%	1.478	0.032
Postterm	2,845	23.2%	64,059	24.6%	-1.489	-0.035
Unknown term	166	1.4%	3,806	1.5%	-0.113	-0.010

**Table 1e. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the third trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	178	1.4%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	124	1.0%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	190	1.5%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	11,794	96.0%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	492	4.0%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the third trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	13	0.1%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	3,206	26.1%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	1,029	8.4%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	2,381	19.4%	45,959	17.7%	1.698	0.044
<b>Oxygenation in the third trimester</b>						
Supplemental oxygen	71	0.6%	103	0.0%	0.538	0.097
High-flow oxygen or non-invasive mechanical ventilation	25	0.2%	101	0.0%	0.165	0.047
Invasive mechanical ventilation or ECMO	44	0.4%	85	0.0%	0.325	0.074
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	70	0.6%	1,608	0.6%	-0.049	-0.006
Cardiovascular and other vascular disease	101	0.8%	1,942	0.7%	0.075	0.008
Congenital heart disease	37	0.3%	794	0.3%	-0.004	-0.001
Cardiovascular disease	55	0.4%	893	0.3%	0.104	0.017
Other vascular disease	15	0.1%	430	0.2%	-0.043	-0.011
Endocrine disorders	1,738	14.1%	29,553	11.4%	2.776	0.083
Diabetes mellitus	260	2.1%	4,750	1.8%	0.289	0.021
Obesity	1,570	12.8%	26,441	10.2%	2.606	0.082
Hypertension	374	3.0%	7,032	2.7%	0.339	0.020

**Table 1e. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Immunological diseases	35	0.3%	623	0.2%	0.045	0.009
Human immunodeficiency virus	8	0.1%	219	0.1%	-0.019	-0.007
Immunosuppression	27	0.2%	406	0.2%	0.064	0.015
Mental disorders	1,124	9.1%	21,364	8.2%	0.929	0.033
Renal disorders: chronic kidney disease	65	0.5%	1,576	0.6%	-0.077	-0.010
Respiratory diseases	580	4.7%	11,244	4.3%	0.395	0.019
Asthma	507	4.1%	9,507	3.7%	0.469	0.024
Chronic obstructive pulmonary disease	72	0.6%	1,709	0.7%	-0.071	-0.009
Other chronic respiratory diseases	90	0.7%	2,002	0.8%	-0.038	-0.004
Rheumatic diseases	474	3.9%	8,953	3.4%	0.414	0.022
Sickle cell disease	17	0.1%	264	0.1%	0.037	0.011
Smoking	311	2.5%	6,596	2.5%	-0.006	0.000
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	267	2.2%	5,484	2.1%	0.063	0.004
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	3,869	31.5%	79,907	30.7%	0.749	0.016
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.5	1.9	1.4	1.8	0.131	0.070
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	4,702	38.3%	103,860	40.0%	-1.686	-0.035
1-2	5,098	41.5%	109,265	42.0%	-0.542	-0.011
3-4	1,434	11.7%	28,399	10.9%	0.746	0.024
5-6	647	5.3%	12,113	4.7%	0.606	0.028
7-8	286	2.3%	4,453	1.7%	0.615	0.044
9-10	82	0.7%	1,259	0.5%	0.183	0.024
>10	37	0.3%	578	0.2%	0.079	0.015
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	22.1	14.1	19.9	13.8	2.211	0.158
Mean number of emergency room encounters	0.6	1.1	0.4	0.9	0.200	0.197

**Table 1e. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	-0.010
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.2	0.020	0.076
Mean number of other ambulatory encounters	6.5	5.9	5.9	5.5	0.578	0.101
Mean number of unique drug classes dispensed	4.3	3.7	3.8	3.4	0.479	0.135
Mean number of unique generics dispensed	4.6	4.1	4.1	3.8	0.532	0.134
Mean number of unique dispensings	9.4	11.2	8.7	10.9	0.732	0.066

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1f. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	12,274	-	12,274	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.9	4.4	32.3	4.4	-0.372	-0.084
Maternal age categories (years)*	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	662	5.4%	662	5.4%	0.000	0.000
25-39	11,140	90.8%	11,140	90.8%	0.000	0.000
40-55	472	3.8%	472	3.8%	0.000	0.000
Year of delivery date						
2020	1,829	14.9%	1,854	15.1%	-0.204	-0.006
2021	4,759	38.8%	4,879	39.8%	-0.978	-0.020
2022	5,686	46.3%	5,541	45.1%	1.181	0.024
Race categories						
American Indian or Alaska Native	5	0.0%	4	0.0%	0.008	0.004
Asian	164	1.3%	198	1.6%	-0.277	-0.023
Black or African American	93	0.8%	65	0.5%	0.228	0.029
Native Hawaiian or Other Pacific Islander	3	0.0%	4	0.0%	-0.008	-0.005
White	1,057	8.6%	1,035	8.4%	0.179	0.006
Multi-racial	135	1.1%	128	1.0%	0.057	0.006
Unknown	10,817	88.1%	10,840	88.3%	-0.187	-0.006
Hispanic	247	2.0%	200	1.6%	0.383	0.029
<b>Month of COVID-19 identification</b>						
December 2019	0	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	25	0.2%	N/A	-	-	-
April 2020	102	0.8%	N/A	-	-	-
May 2020	144	1.2%	N/A	-	-	-
June 2020	163	1.3%	N/A	-	-	-
July 2020	267	2.2%	N/A	-	-	-
August 2020	195	1.6%	N/A	-	-	-
September 2020	183	1.5%	N/A	-	-	-
October 2020	261	2.1%	N/A	-	-	-



**Table 1f. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Nov-20	489	4.0%	N/A	-	-	-
December 2020	681	5.5%	N/A	-	-	-
January 2021	638	5.2%	N/A	-	-	-
February 2021	339	2.8%	N/A	-	-	-
March 2021	316	2.6%	N/A	-	-	-
April 2021	335	2.7%	N/A	-	-	-
May 2021	208	1.7%	N/A	-	-	-
June 2021	156	1.3%	N/A	-	-	-
July 2021	257	2.1%	N/A	-	-	-
August 2021	631	5.1%	N/A	-	-	-
September 2021	508	4.1%	N/A	-	-	-
October 2021	275	2.2%	N/A	-	-	-
November 2021	310	2.5%	N/A	-	-	-
December 2021	1,009	8.2%	N/A	-	-	-
January 2022	2,107	17.2%	N/A	-	-	-
February 2022	678	5.5%	N/A	-	-	-
March 2022	350	2.9%	N/A	-	-	-
April 2022	320	2.6%	N/A	-	-	-
May 2022	531	4.3%	N/A	-	-	-
June 2022	377	3.1%	N/A	-	-	-
July 2022	281	2.3%	N/A	-	-	-
August 2022	107	0.9%	N/A	-	-	-
September 2022	31	0.3%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.7	1.4	39.7	1.5	0.021	0.015
Pregnancy duration categories	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	694	5.7%	694	5.7%	0.000	0.000
Term	8,574	69.9%	8,574	69.9%	0.000	0.000
Postterm	2,844	23.2%	2,844	23.2%	0.000	0.000
Unknown term	162	1.3%	162	1.3%	0.000	0.000

**Table 1f. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity in the third trimester</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	0	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	178	1.5%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	124	1.0%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	190	1.5%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	11,782	96.0%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	492	4.0%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits in the third trimester</b>						
Hospitalization for COVID-19 as primary diagnosis	13	0.1%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	3,203	26.1%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	1,027	8.4%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	2,376	19.4%	2325	18.9%	0.416	0.011
<b>Oxygenation in the third trimester</b>						
Supplemental oxygen	71	0.6%	4	0.0%	0.546	0.099
High-flow oxygen or non-invasive mechanical ventilation	25	0.2%	8	0.1%	0.139	0.038
Invasive mechanical ventilation or ECMO	44	0.4%	5	0.0%	0.318	0.071
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	69	0.6%	76	0.6%	-0.057	-0.007
Cardiovascular and other vascular disease	101	0.8%	90	0.7%	0.090	0.010
Congenital heart disease	37	0.3%	38	0.3%	-0.008	-0.001
Cardiovascular disease	55	0.4%	42	0.3%	0.106	0.017
Other vascular disease	15	0.1%	20	0.2%	-0.041	-0.011
Endocrine disorders*	1,736	14.1%	1,736	14.1%	0.000	0.000
Diabetes mellitus	260	2.1%	281	2.3%	-0.171	-0.012
Obesity	1,568	12.8%	1,550	12.6%	0.147	0.004
Hypertension	373	3.0%	361	2.9%	0.098	0.006
Immunological diseases	35	0.3%	35	0.3%	0.000	0.000

**Table 1f. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Human immunodeficiency virus	8	0.1%	13	0.1%	-0.041	-0.014
Immunosuppression	27	0.2%	22	0.2%	0.041	0.009
Mental disorders	1,124	9.2%	1,109	9.0%	0.122	0.004
Renal disorders: chronic kidney disease	65	0.5%	83	0.7%	-0.147	-0.019
Respiratory diseases*	579	4.7%	585	4.8%	-0.049	-0.002
Asthma	506	4.1%	514	4.2%	-0.065	-0.003
Chronic obstructive pulmonary disease	72	0.6%	60	0.5%	0.098	0.013
Other chronic respiratory diseases	90	0.7%	77	0.6%	0.106	0.013
Rheumatic diseases	474	3.9%	433	3.5%	0.334	0.018
Sickle cell disease	17	0.1%	10	0.1%	0.057	0.017
Smoking	311	2.5%	322	2.6%	-0.090	-0.006
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	267	2.2%	289	2.4%	-0.179	-0.012
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	3,865	31.5%	3,874	31.6%	-0.073	-0.002
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.5	1.9	1.5	1.9	0.009	0.005
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	4,699	38.3%	4,532	36.9%	1.361	0.028
1-2	5,094	41.5%	5,260	42.9%	-1.352	-0.027
3-4	1,432	11.7%	1,511	12.3%	-0.644	-0.020
5-6	645	5.3%	641	5.2%	0.033	0.001
7-8	286	2.3%	224	1.8%	0.505	0.035
9-10	81	0.7%	77	0.6%	0.033	0.004
>10	37	0.3%	29	0.2%	0.065	0.013
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	22.0	14.0	20.7	14.0	1.281	0.092
Mean number of emergency room encounters	0.6	1.1	0.4	0.9	0.188	0.186
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.2	0.017	0.066

**Table 1f. Baseline Characteristics of Pregnant Patients With COVID-19 in the Third Trimester and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 in the third trimester		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 in the third trimester and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	-0.007
Mean number of other ambulatory encounters	6.5	5.9	6.3	6.0	0.115	0.019
Mean number of unique drug classes dispensed	4.3	3.7	3.9	3.5	0.356	0.099
Mean number of unique generics dispensed	4.6	4.1	4.2	3.9	0.371	0.092
Mean number of unique dispensings	9.4	11.2	9.1	11.3	0.338	0.030

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

\*Covariates followed by an asterisk (\*) were included in the PS-adjusted model, including mean maternal age, endocrine disorders, and respiratory diseases.

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1g. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
	22,893	-	259,927	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.9	4.4	32.2	4.3	-0.307	-0.071
Maternal age categories (years)	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	1,291	5.6%	11,441	4.4%	1.238	0.057
25-39	20,799	90.9%	238,729	91.8%	-0.992	-0.035
40-55	803	3.5%	9,757	3.8%	-0.246	-0.013
Year of delivery date						
2020	2,221	9.7%	112,031	43.1%	-33.399	-0.819
2021	10,169	44.4%	104,990	40.4%	4.028	0.082
2022	10,503	45.9%	42,906	16.5%	29.372	0.668
Race categories						
American Indian or Alaska Native	5	0.0%	49	0.0%	0.003	0.002
Asian	294	1.3%	4,314	1.7%	-0.375	-0.031
Black or African American	173	0.8%	1,570	0.6%	0.152	0.018
Native Hawaiian or Other Pacific Islander	5	0.0%	69	0.0%	-0.005	-0.003
White	2,049	9.0%	19,344	7.4%	1.508	0.055
Multi-racial	257	1.1%	2,343	0.9%	0.221	0.022
Unknown	20,110	87.8%	232,238	89.3%	-1.504	-0.047
Hispanic	495	2.2%	3,622	1.4%	0.769	0.058
<b>Month of COVID-19 identification</b>						
December 2019	1	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	49	0.2%	N/A	-	-	-
April 2020	180	0.8%	N/A	-	-	-
May 2020	243	1.1%	N/A	-	-	-
June 2020	314	1.4%	N/A	-	-	-
July 2020	512	2.2%	N/A	-	-	-
August 2020	381	1.7%	N/A	-	-	-

**Table 1g. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
September 2020	393	1.7%	N/A	-	-	-
October 2020	639	2.8%	N/A	-	-	-
November 2020	1,340	5.9%	N/A	-	-	-
December 2020	1,779	7.8%	N/A	-	-	-
January 2021	1,541	6.7%	N/A	-	-	-
February 2021	764	3.3%	N/A	-	-	-
March 2021	663	2.9%	N/A	-	-	-
April 2021	634	2.8%	N/A	-	-	-
May 2021	366	1.6%	N/A	-	-	-
June 2021	258	1.1%	N/A	-	-	-
July 2021	512	2.2%	N/A	-	-	-
August 2021	1,227	5.4%	N/A	-	-	-
September 2021	991	4.3%	N/A	-	-	-
October 2021	567	2.5%	N/A	-	-	-
November 2021	665	2.9%	N/A	-	-	-
December 2021	2,073	9.1%	N/A	-	-	-
January 2022	3,675	16.1%	N/A	-	-	-
February 2022	914	4.0%	N/A	-	-	-
March 2022	428	1.9%	N/A	-	-	-
April 2022	382	1.7%	N/A	-	-	-
May 2022	580	2.5%	N/A	-	-	-
June 2022	400	1.7%	N/A	-	-	-
July 2022	283	1.2%	N/A	-	-	-
August 2022	108	0.5%	N/A	-	-	-
September 2022	31	0.1%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.6	1.5	39.7	1.5	-0.088	-0.059
Pregnancy duration categories	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	1,434	6.3%	14,446	5.6%	0.706	0.030
Term	16,037	70.1%	177,616	68.3%	1.719	0.037
Postterm	5,127	22.4%	64,059	24.6%	-2.250	-0.053
Unknown term	295	1.3%	3,806	1.5%	-0.176	-0.015

**Table 1g. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity during pregnancy</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	1	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	239	1.0%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	145	0.6%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	225	1.0%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	22,283	97.3%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	610	2.7%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits during pregnancy</b>						
Hospitalization for COVID-19 as primary diagnosis	15	0.1%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	3,516	15.4%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	1,227	5.4%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	4,706	20.6%	46,762	18.0%	2.566	0.065
<b>Oxygenation during pregnancy</b>						
Supplemental oxygen	127	0.6%	147	0.1%	0.498	0.090
High-flow oxygen or non-invasive mechanical ventilation	40	0.2%	105	0.0%	0.134	0.041
Invasive mechanical ventilation or ECMO	60	0.3%	92	0.0%	0.227	0.059
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	160	0.7%	1,608	0.6%	0.080	0.010
Cardiovascular and other vascular disease	210	0.9%	1,942	0.7%	0.170	0.019
Congenital heart disease	68	0.3%	794	0.3%	-0.008	-0.002
Cardiovascular disease	121	0.5%	893	0.3%	0.185	0.028
Other vascular disease	33	0.1%	430	0.2%	-0.021	-0.005
Endocrine disorders	3,554	15.5%	29,553	11.4%	4.155	0.122
Diabetes mellitus	555	2.4%	4,750	1.8%	0.597	0.041
Obesity	3,211	14.0%	26,441	10.2%	3.854	0.118
Hypertension	804	3.5%	7,032	2.7%	0.807	0.046

**Table 1g. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Immunological diseases	79	0.3%	623	0.2%	0.105	0.020
Human immunodeficiency virus	25	0.1%	219	0.1%	0.025	0.008
Immunosuppression	55	0.2%	406	0.2%	0.084	0.019
Mental disorders	2,181	9.5%	21,364	8.2%	1.308	0.046
Renal disorders: chronic kidney disease	172	0.8%	1,576	0.6%	0.145	0.018
Respiratory diseases	1,220	5.3%	11,244	4.3%	1.003	0.047
Asthma	1,053	4.6%	9,507	3.7%	0.942	0.047
Chronic obstructive pulmonary disease	165	0.7%	1,709	0.7%	0.063	0.008
Other chronic respiratory diseases	207	0.9%	2,002	0.8%	0.134	0.015
Rheumatic diseases	920	4.0%	8,953	3.4%	0.574	0.030
Sickle cell disease	34	0.1%	264	0.1%	0.047	0.013
Smoking	680	3.0%	6,596	2.5%	0.433	0.026
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	484	2.1%	5,484	2.1%	0.004	0.000
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	7,347	32.1%	79,907	30.7%	1.351	0.029
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.6	2.0	1.4	1.8	0.162	0.086
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	8,640	37.7%	103,860	40.0%	-2.217	-0.045
1-2	9,496	41.5%	109,265	42.0%	-0.557	-0.011
3-4	2,688	11.7%	28,399	10.9%	0.816	0.026
5-6	1,265	5.5%	12,113	4.7%	0.866	0.039
7-8	568	2.5%	4,453	1.7%	0.768	0.054
9-10	152	0.7%	1,259	0.5%	0.180	0.024
>10	84	0.4%	578	0.2%	0.145	0.027
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters	22.8	14.5	19.8	13.7	2.965	0.210
Mean number of emergency room encounters	0.6	1.2	0.4	0.9	0.249	0.230



**Table 1g. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (Unadjusted, Aggregated)**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.000
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.2	0.023	0.085
Mean number of other ambulatory encounters	6.7	6.1	5.9	5.5	0.853	0.146
Mean number of unique drug classes dispensed	4.5	3.8	3.8	3.4	0.704	0.193
Mean number of unique generics dispensed	4.9	4.3	4.1	3.8	0.773	0.190
Mean number of unique dispensings	9.9	11.5	8.7	10.9	1.219	0.109

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 1h. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Number of pregnant patients	22,865	-	22,865	-	-	-
<b>Demographic characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean maternal age (years)	31.9	4.4	32.3	4.4	-0.406	-0.092
Maternal age categories (years)*	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
12-24	1,273	5.6%	1,273	5.6%	0.000	0.000
25-39	20,795	90.9%	20,795	90.9%	0.000	0.000
40-55	797	3.5%	797	3.5%	0.000	0.000
Year of delivery date						
2020	2,219	9.7%	2,236	9.8%	-0.074	-0.003
2021	10,164	44.5%	10,328	45.2%	-0.717	-0.014
2022	10,482	45.8%	10,301	45.1%	0.792	0.016
Race categories						
American Indian or Alaska Native	5	0.0%	4	0.0%	0.004	0.003
Asian	294	1.3%	423	1.8%	-0.564	-0.045
Black or African American	173	0.8%	148	0.6%	0.109	0.013
Native Hawaiian or Other Pacific Islander	5	0.0%	7	0.0%	-0.009	-0.005
White	2,046	8.9%	1,955	8.6%	0.398	0.014
Multi-racial	257	1.1%	232	1.0%	0.109	0.011
Unknown	20,085	87.8%	20,096	87.9%	-0.048	-0.001
Hispanic	495	2.2%	403	1.8%	0.402	0.029
<b>Month of COVID-19 identification</b>						
December 2019	1	0.0%	N/A	-	-	-
January 2020	0	0.0%	N/A	-	-	-
February 2020	0	0.0%	N/A	-	-	-
March 2020	49	0.2%	N/A	-	-	-
April 2020	180	0.8%	N/A	-	-	-
May 2020	243	1.1%	N/A	-	-	-
June 2020	314	1.4%	N/A	-	-	-
July 2020	512	2.2%	N/A	-	-	-
August 2020	381	1.7%	N/A	-	-	-

**Table 1h. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
September 2020	393	1.7%	N/A	-	-	-
October 2020	639	2.8%	N/A	-	-	-
November 2020	1,338	5.9%	N/A	-	-	-
December 2020	1,777	7.8%	N/A	-	-	-
January 2021	1,541	6.7%	N/A	-	-	-
February 2021	764	3.3%	N/A	-	-	-
March 2021	663	2.9%	N/A	-	-	-
April 2021	634	2.8%	N/A	-	-	-
May 2021	365	1.6%	N/A	-	-	-
June 2021	258	1.1%	N/A	-	-	-
July 2021	512	2.2%	N/A	-	-	-
August 2021	1,225	5.4%	N/A	-	-	-
September 2021	990	4.3%	N/A	-	-	-
October 2021	564	2.5%	N/A	-	-	-
November 2021	664	2.9%	N/A	-	-	-
December 2021	2,070	9.1%	N/A	-	-	-
January 2022	3,670	16.1%	N/A	-	-	-
February 2022	910	4.0%	N/A	-	-	-
March 2022	426	1.9%	N/A	-	-	-
April 2022	382	1.7%	N/A	-	-	-
May 2022	580	2.5%	N/A	-	-	-
June 2022	399	1.7%	N/A	-	-	-
July 2022	283	1.2%	N/A	-	-	-
August 2022	107	0.5%	N/A	-	-	-
September 2022	31	0.1%	N/A	-	-	-
<b>Live birth delivery characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>	<b>Mean</b>	<b>Standard Deviation</b>		
Mean gestational age at delivery (weeks)	39.6	1.5	39.6	1.6	0.006	0.004
Pregnancy duration categories	<b>Number</b>	<b>Percent</b>	<b>Number</b>	<b>Percent</b>		
Preterm	1,423	6.2%	1,423	6.2%	0.000	0.000
Term	16,030	70.1%	16,030	70.1%	0.000	0.000
Postterm	5,125	22.4%	5,125	22.4%	0.000	0.000
Unknown term	287	1.3%	287	1.3%	0.000	0.000

**Table 1h. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
<b>Hierarchical COVID-19 severity during pregnancy</b>						
Level 5: Hospitalization for COVID-19 with expired discharge status	1	0.0%	N/A	-	-	-
Level 4: Hospitalization for COVID-19 with ARDS or requiring ventilation	239	1.0%	N/A	-	-	-
Level 3: Hospitalization for COVID-19 with ICU stay	145	0.6%	N/A	-	-	-
Level 2: Hospitalization for COVID-19 with pneumonia, dyspnea, hypoxia, hypoxemia, supplemental oxygen, or non-invasive oxygen therapy	225	1.0%	N/A	-	-	-
Level 1: Any other occurrence of COVID-19 (non-severe)	22,255	97.3%	N/A	-	-	-
Severe (hospitalized) COVID-19 (levels 2-5)	610	2.7%	N/A	-	-	-
<b>COVID-19 hospitalization and obstetric visits during pregnancy</b>						
Hospitalization for COVID-19 as primary diagnosis	15	0.1%	N/A	-	-	-
Hospitalization for COVID-19 with no obstetric visit	3,513	15.4%	N/A	-	-	-
Hospitalization for COVID-19 and an obstetric visit	1,223	5.3%	N/A	-	-	-
Hospitalization for an obstetric visit without COVID-19	4,695	20.5%	4564	20.0%	0.573	0.014
<b>Oxygenation during pregnancy</b>						
Supplemental oxygen	127	0.6%	11	0.0%	0.507	0.093
High-flow oxygen or non-invasive mechanical ventilation	40	0.2%	11	0.0%	0.127	0.038
Invasive mechanical ventilation or ECMO	60	0.3%	9	0.0%	0.223	0.057
<b>Maternal pre-existing or at-risk medical conditions in the pre-pregnancy period and the first trimester</b>						
Cancer	160	0.7%	152	0.7%	0.035	0.004
Cardiovascular and other vascular disease	209	0.9%	197	0.9%	0.052	0.006
Congenital heart disease	68	0.3%	83	0.4%	-0.066	-0.011
Cardiovascular disease	120	0.5%	92	0.4%	0.122	0.018
Other vascular disease	33	0.1%	43	0.2%	-0.044	-0.011
Endocrine disorders*	3,542	15.5%	3,542	15.5%	0.000	0.000
Diabetes mellitus	554	2.4%	592	2.6%	-0.166	-0.011
Obesity	3,199	14.0%	3,147	13.8%	0.227	0.007
Hypertension	800	3.5%	740	3.2%	0.262	0.015
Immunological diseases	79	0.3%	73	0.3%	0.026	0.005

**Table 1h. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Human immunodeficiency virus	25	0.1%	21	0.1%	0.017	0.006
Immunosuppression	55	0.2%	52	0.2%	0.013	0.003
Mental disorders	2,181	9.5%	2,165	9.5%	0.070	0.002
Renal disorders: chronic kidney disease	172	0.8%	153	0.7%	0.083	0.010
Respiratory diseases*	1,212	5.3%	1,190	5.2%	0.096	0.004
Asthma	1,045	4.6%	1,053	4.6%	-0.035	-0.002
Chronic obstructive pulmonary disease	164	0.7%	119	0.5%	0.197	0.025
Other chronic respiratory diseases	206	0.9%	154	0.7%	0.227	0.026
Rheumatic diseases	917	4.0%	786	3.4%	0.573	0.030
Sickle cell disease	34	0.1%	24	0.1%	0.044	0.012
Smoking	678	3.0%	594	2.6%	0.367	0.022
<b>Maternal obstetric conditions in the pre-pregnancy period</b>						
Assisted reproductive technology	484	2.1%	521	2.3%	-0.162	-0.011
<b>Maternal/infant obstetric conditions in the +/-7 days of delivery</b>						
Caesarean section	7,338	32.1%	7,203	31.5%	0.590	0.013
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
<b>Obstetric comorbidity score in the pre-pregnancy period or during pregnancy</b>						
Mean Bateman comorbidity index <sup>2</sup>	1.5	2.0	1.5	1.9	0.016	0.008
Obstetric comorbidity categories	Number	Percent	Number	Percent		
0	8,636	37.8%	8,407	36.8%	1.002	0.021
1-2	9,486	41.5%	9,752	42.7%	-1.163	-0.024
3-4	2,681	11.7%	2,722	11.9%	-0.179	-0.006
5-6	1,260	5.5%	1,292	5.7%	-0.140	-0.006
7-8	568	2.5%	496	2.2%	0.315	0.021
9-10	151	0.7%	136	0.6%	0.066	0.008
>10	83	0.4%	60	0.3%	0.101	0.018
<b>Health service utilization intensity in the pre-pregnancy period or during pregnancy</b>						
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of ambulatory encounters	22.8	14.5	20.9	14.3	1.930	0.134
Mean number of emergency room encounters	0.6	1.2	0.4	0.9	0.234	0.213
Mean number of inpatient hospital encounters	1.0	0.3	1.0	0.3	0.016	0.060

**Table 1h. Baseline Characteristics of Pregnant Patients With COVID-19 During Pregnancy and Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts				Covariate Balance	
	Pregnant patients with live birth delivery and COVID-19 during pregnancy		Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>		Between pregnant patients with COVID-19 during pregnancy and pregnant patients without COVID-19	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
Mean number of non-acute institutional encounters	0.0	0.0	0.0	0.0	0.000	0.005
Mean number of other ambulatory encounters	6.7	6.1	6.4	6.8	0.296	0.046
Mean number of unique drug classes dispensed	4.5	3.8	3.9	3.5	0.560	0.152
Mean number of unique generics dispensed	4.9	4.3	4.3	4.0	0.585	0.141
Mean number of unique dispensings	9.9	11.5	9.1	11.2	0.798	0.070

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date within +/- 14 days of pregnancy start date of matched pregnant patient with COVID-19.

<sup>2</sup>Bateman BT, Mhyre JM, Hernandez-Diaz S, et al. Development of a comorbidity index for use in obstetric patients. *Obstet Gynecol.* 2013;122(5):957-965. doi:10.1097/AOG.0b013e3182a603bb

\*Covariates followed by an asterisk (\*) were included in the PS-adjusted model, including mean maternal age, endocrine disorders, and respiratory diseases.

~Covariates in blue font show a standardized difference greater than 0.1

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 2a. Effect Estimates for Risk of Neonatal Low Birth Weight Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Low birth weight in the 7 days after live birth delivery,</b>	<b>Number of</b>	<b>Number of HOIs</b>	<b>Risk per 1,000</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>mother or infant claims</b>	<b>pregnant patients</b>		<b>pregnant patients</b>		
<b>COVID-19 in the first trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the first trimester	4,314	96	22.25	2.73 (-1.70, 7.17)	1.14 (0.93, 1.39)
No evidence of COVID-19	259,927	5,074	19.52		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the first trimester	4,310	95	22.04	-5.80 (-12.38, 0.78)	0.79 (0.61, 1.03)
No evidence of COVID-19 <sup>1</sup>	4,310	120	27.84		
<b>COVID-19 in the second trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the second trimester	6,302	143	22.69	3.17 (-0.54, 6.89)	1.16 (0.99, 1.37)
No evidence of COVID-19	259,927	5,074	19.52		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the second trimester	6,298	143	22.71	-0.79 (-6.04, 4.45)	0.97 (0.77, 1.21)
No evidence of COVID-19 <sup>1</sup>	6,298	148	23.50		
<b>COVID-19 in the third trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the third trimester	12,286	265	21.57	2.05 (-0.57, 4.67)	1.10 (0.98, 1.25)
No evidence of COVID-19	259,927	5,074	19.52		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the third trimester	12,274	261	21.26	0.16 (-3.44, 3.77)	1.01 (0.85, 1.19)
No evidence of COVID-19 <sup>1</sup>	12,274	259	21.10		

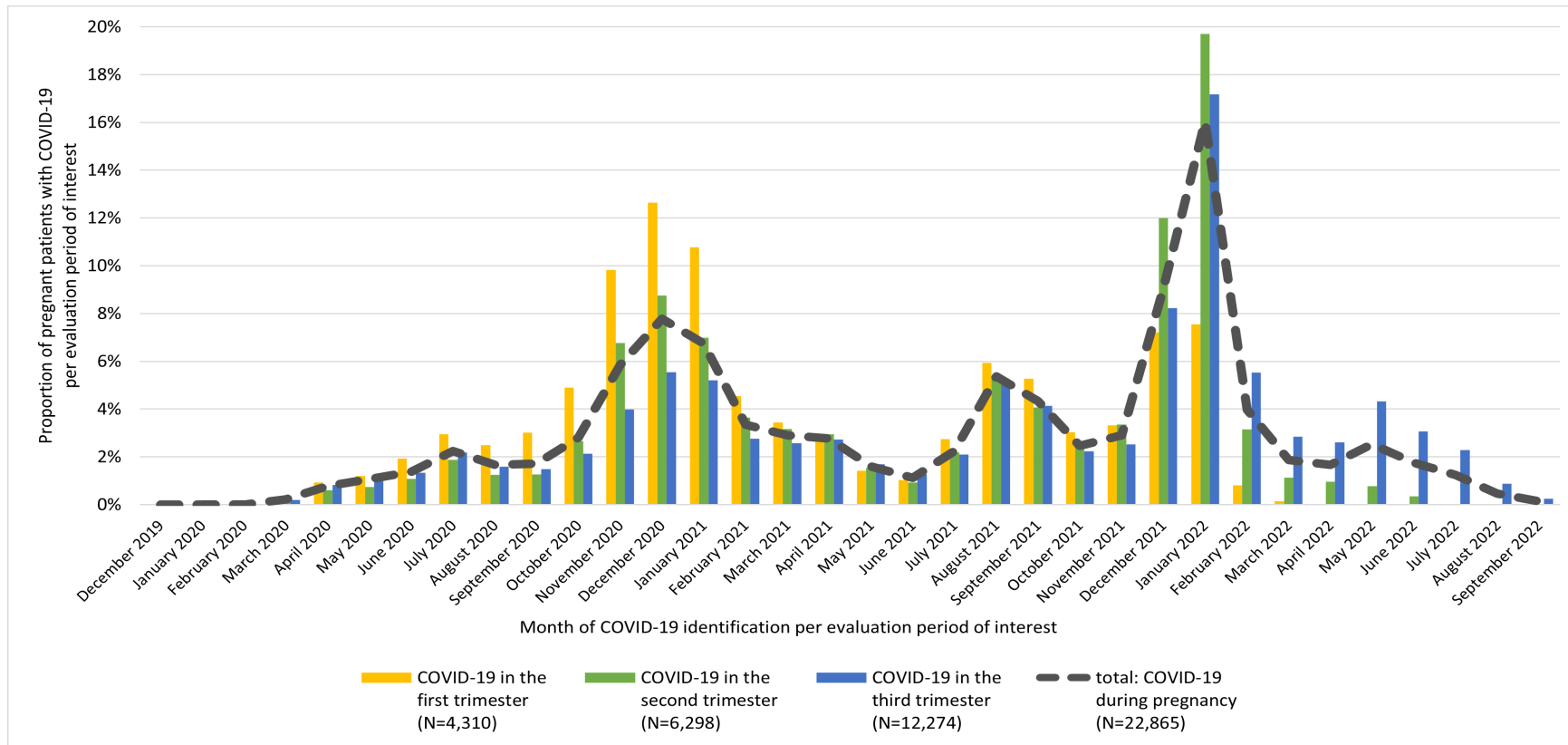
**Table 2a. Effect Estimates for Risk of Neonatal Low Birth Weight Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Low birth weight in the 7 days after live birth delivery, mother or infant claims</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>COVID-19 at any time during pregnancy</b>					
<b>Unadjusted analysis</b>					
COVID-19 any time during pregnancy	22,893	504	22.02	2.49 (0.52, 4.47)	1.13 (1.03, 1.23)
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 any time during pregnancy	22,865	497	21.74	-0.70 (-3.39, 1.99)	0.97 (0.86, 1.09)
No evidence of COVID-19 <sup>1</sup>	22,865	513	22.44		

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.



**Figure 1. Monthly COVID-19 Identification Among Pregnant Patients With COVID-19 and Non-Pregnant Patients With COVID-19 per Evaluation Period of Interest in the Rapid COVID-19 Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**



**Table 2b. Effect Estimates for Risk of Neonatal Small Gestational Age Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>						
<b>Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>	
<b>COVID-19 in the first trimester</b>						
<b>Unadjusted analysis</b>						
COVID-19 in the first trimester	4,314	125	28.98	0.56 (-4.49, 5.61)	1.02 (0.86, 1.21)	
No evidence of COVID-19	259,927	7,386	28.42			
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>						
COVID-19 in the first trimester	4,310	125	29.00	1.86 (-5.12, 8.83)	1.07 (0.83, 1.37)	
No evidence of COVID-19 <sup>1</sup>	4,310	117	27.15			
<b>COVID-19 in the second trimester</b>						
<b>Unadjusted analysis</b>						
COVID-19 in the second trimester	6,302	179	28.40	-0.01 (-4.16, 4.14)	1.00 (0.86, 1.16)	
No evidence of COVID-19	259,927	7,386	28.42			
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>						
COVID-19 in the second trimester	6,298	178	28.26	-1.11 (-6.95, 4.73)	0.96 (0.79, 1.18)	
No evidence of COVID-19 <sup>1</sup>	6,298	185	29.37			
<b>COVID-19 in the third trimester</b>						
<b>Unadjusted analysis</b>						
COVID-19 in the third trimester	12,286	345	28.08	-0.33 (-3.33, 2.66)	0.99 (0.89, 1.10)	
No evidence of COVID-19	259,927	7,386	28.42			
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>						
COVID-19 in the third trimester	12,274	344	28.03	-0.24 (-4.38, 3.89)	0.99 (0.86, 1.15)	
No evidence of COVID-19 <sup>1</sup>	12,274	347	28.27			

**Table 2b. Effect Estimates for Risk of Neonatal Small Gestational Age Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>COVID-19 at any time during pregnancy</b>					
<b>Unadjusted analysis</b>					
COVID-19 any time during pregnancy	22,893	649	28.35	-0.07 (-2.31, 2.18)	1.00 (0.92, 1.08)
No evidence of COVID-19	259,927	7,386	28.42		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 any time during pregnancy	22,865	647	28.30	-2.23 (-5.33, 0.87)	0.93 (0.83, 1.03)
No evidence of COVID-19 <sup>1</sup>	22,865	698	30.53		

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

**Table 2c. Effect Estimates for Risk of Neonatal Microcephaly Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Number of pregnant patients	Number of HOIs	Risk per 1,000 pregnant patients	Risk difference, 95% CI	Risk ratio, 95% CI
<b>COVID-19 in the first trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the first trimester	4,314	6	1.39	0.21 (-0.91, 1.33)	1.17 (0.52, 2.63)
No evidence of COVID-19	259,927	308	1.18		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the first trimester	4,310	6	1.39	-0.23 (-1.87, 1.41)	0.86 (0.29, 2.55)
No evidence of COVID-19 <sup>1</sup>	4,310	7	1.62		
<b>COVID-19 in the second trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the second trimester	6,302	6	0.95	-0.23 (-1.01, 0.54)	0.80 (0.36, 1.80)
No evidence of COVID-19	259,927	308	1.18		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the second trimester	6,298	6	0.95	-0.79 (-2.08, 0.49)	0.55 (0.20, 1.47)
No evidence of COVID-19 <sup>1</sup>	6,298	11	1.75		
<b>COVID-19 in the third trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the third trimester	12,286	18	1.47	0.28 (-0.41, 0.97)	1.24 (0.77, 1.99)
No evidence of COVID-19	259,927	308	1.18		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the third trimester	12,274	18	1.47	0.33 (-0.58, 1.23)	1.29 (0.64, 2.58)
No evidence of COVID-19 <sup>1</sup>	12,274	14	1.14		

**Table 2c. Effect Estimates for Risk of Neonatal Microcephaly Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Number of pregnant patients	Number of HOIs	Risk per 1,000 pregnant patients	Risk difference, 95% CI	Risk ratio, 95% CI
<b>COVID-19 at any time during pregnancy</b>					
<b>Unadjusted analysis</b>					
COVID-19 any time during pregnancy	22,893	30	1.31	0.13 (-0.36, 0.61)	1.11 (0.76, 1.61)
No evidence of COVID-19	259,927	308	1.18		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 any time during pregnancy	22,865	30	1.31	0.35 (-0.27, 0.97)	1.36 (0.79, 2.36)
No evidence of COVID-19 <sup>1</sup>	22,865	22	0.96		

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

**Table 2d. Effect Estimates for Risk of Neonatal Major Congenital Malformation (1 Diagnostic Occurrence) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Major congenital malformation<sup>2</sup> (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>COVID-19 in the first trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the first trimester	4,314	473	109.64	9.10 (-0.30, 18.49)	1.09 (1.00, 1.19)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the first trimester	4,310	472	109.51	5.57 (-7.47, 18.6)	1.05 (0.93, 1.19)
No evidence of COVID-19 <sup>1</sup>	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the second trimester	6,302	675	107.11	6.56 (-1.16, 14.28)	1.07 (0.99, 1.15)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the second trimester	6,298	674	107.02	3.97 (-6.74, 14.68)	1.04 (0.94, 1.15)
No evidence of COVID-19 <sup>1</sup>	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the third trimester	12,286	1,287	104.75	4.21 (-1.33, 9.74)	1.04 (0.99, 1.10)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the third trimester	12,274	1,287	104.86	3.50 (-4.1, 11.11)	1.03 (0.96, 1.11)
No evidence of COVID-19 <sup>1</sup>	12,274	1,244	101.35		

**Table 2d. Effect Estimates for Risk of Neonatal Major Congenital Malformation (1 Diagnostic Occurrence) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Major congenital malformation<sup>2</sup> (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>COVID-19 at any time during pregnancy</b>					
<b>Unadjusted analysis</b>					
COVID-19 any time during pregnancy	22,893	2,433	106.28	5.73 (1.57, 9.89)	1.06 (1.02, 1.10)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 any time during pregnancy	22,865	2,429	106.23	3.02 (-2.60, 8.63)	1.03 (0.98, 1.09)
No evidence of COVID-19 <sup>1</sup>	22,865	2,360	103.21		

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

<sup>2</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

**Table 2e. Effect Estimates for Risk of Neonatal Major Congenital Malformation (2 Diagnostic Occurrences) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

Neonatal health outcome of interest (HOI): Major congenital malformation <sup>2</sup> (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only					
	Number of pregnant patients	Number of HOIs	Risk per 1,000 pregnant patients	Risk difference, 95% CI	Risk ratio, 95% CI
<b>COVID-19 in the first trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the first trimester	4,314	473	109.64	9.10 (-0.30, 18.49)	1.09 (1.00, 1.19)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the first trimester	4,310	472	109.51	5.57 (-7.47, 18.6)	1.05 (0.93, 1.19)
No evidence of COVID-19 <sup>1</sup>	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the second trimester	6,302	675	107.11	6.56 (-1.16, 14.28)	1.07 (0.99, 1.15)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the second trimester	6,298	674	107.02	3.97 (-6.74, 14.68)	1.04 (0.94, 1.15)
No evidence of COVID-19 <sup>1</sup>	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
<b>Unadjusted analysis</b>					
COVID-19 in the third trimester	12,286	1,287	104.75	4.21 (-1.33, 9.74)	1.04 (0.99, 1.10)
No evidence of COVID-19	259,927	26,135	100.55		
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>					
COVID-19 in the third trimester	12,274	1,287	104.86	3.50 (-4.1, 11.11)	1.03 (0.96, 1.11)
No evidence of COVID-19 <sup>1</sup>	12,274	1,244	101.35		



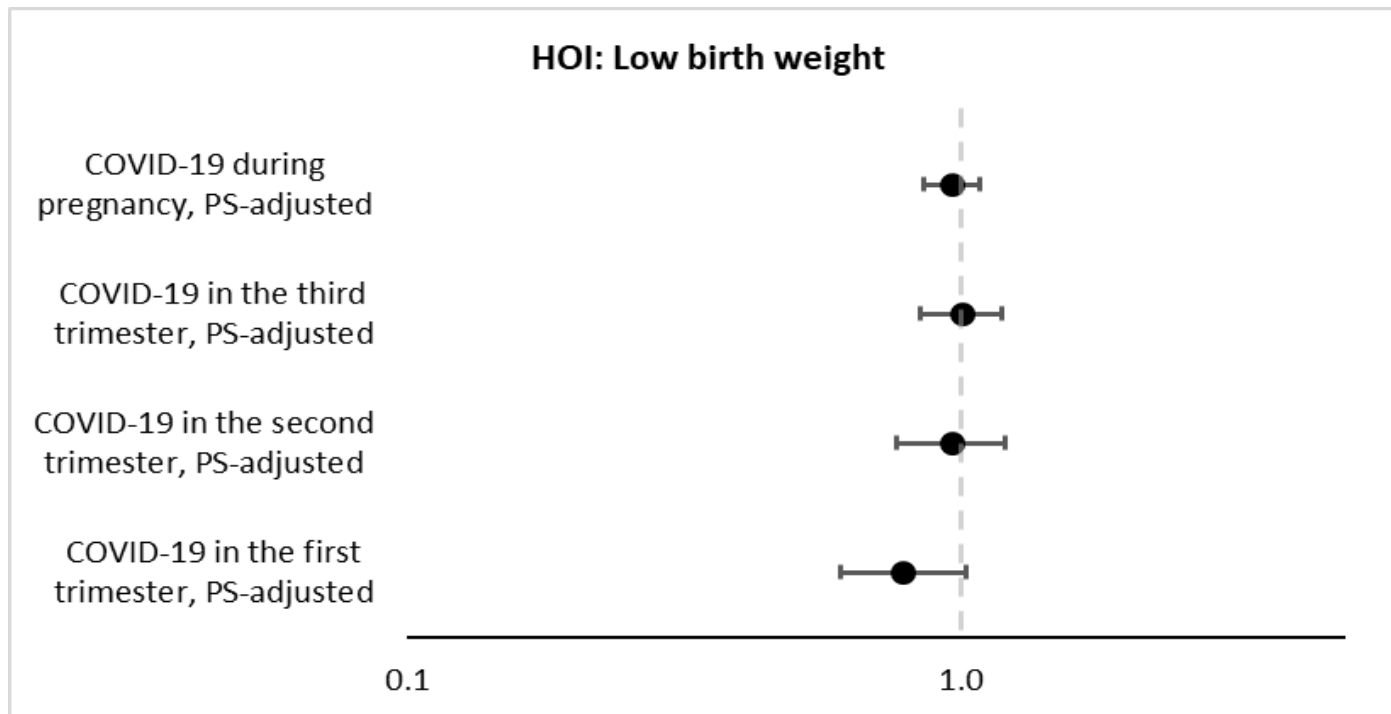
**Table 2e. Effect Estimates for Risk of Neonatal Major Congenital Malformation (2 Diagnostic Occurrences) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>						
<b>Major congenital malformation<sup>2</sup> (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only</b>						
	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>	
<b>COVID-19 at any time during pregnancy</b>						
<b>Unadjusted analysis</b>						
COVID-19 any time during pregnancy	22,893	2,433	106.28	5.73 (1.57, 9.89)	1.06 (1.02, 1.10)	
No evidence of COVID-19	259,927	26,135	100.55			
<b>Fixed ratio 1:1 propensity score matched analysis; Caliper= 0.05</b>						
COVID-19 any time during pregnancy	22,865	2,429	106.23	3.02 (-2.60, 8.63)	1.03 (0.98, 1.09)	
No evidence of COVID-19 <sup>1</sup>	22,865	2,360	103.21			

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

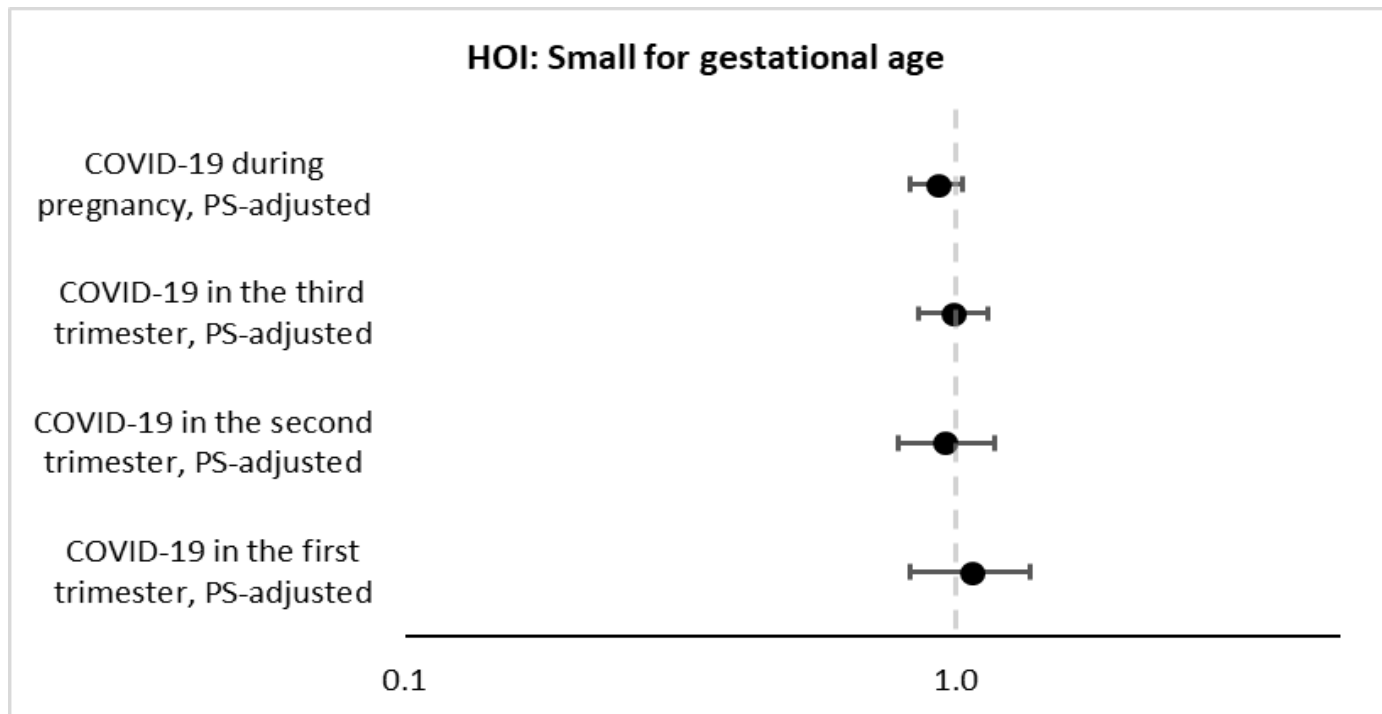
<sup>2</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

Figure 2a. Forest Plot of Effect Estimates for Risk of Neonatal Low Birth Weight Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05



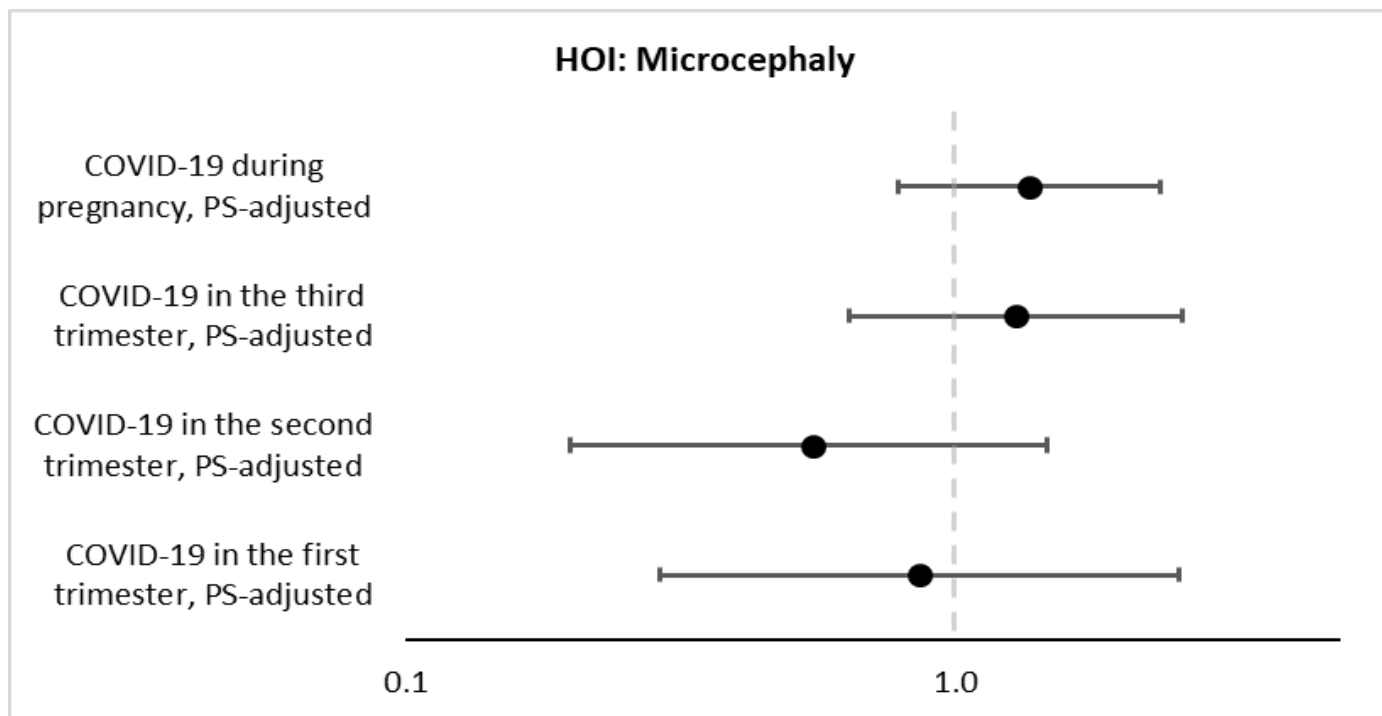
\*Low birth weight observed in the 7 days after live birth delivery in the mother or infant's claims.

**Figure 2b. Forest Plots of Effect Estimates for Neonatal Small for Gestational Age Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**



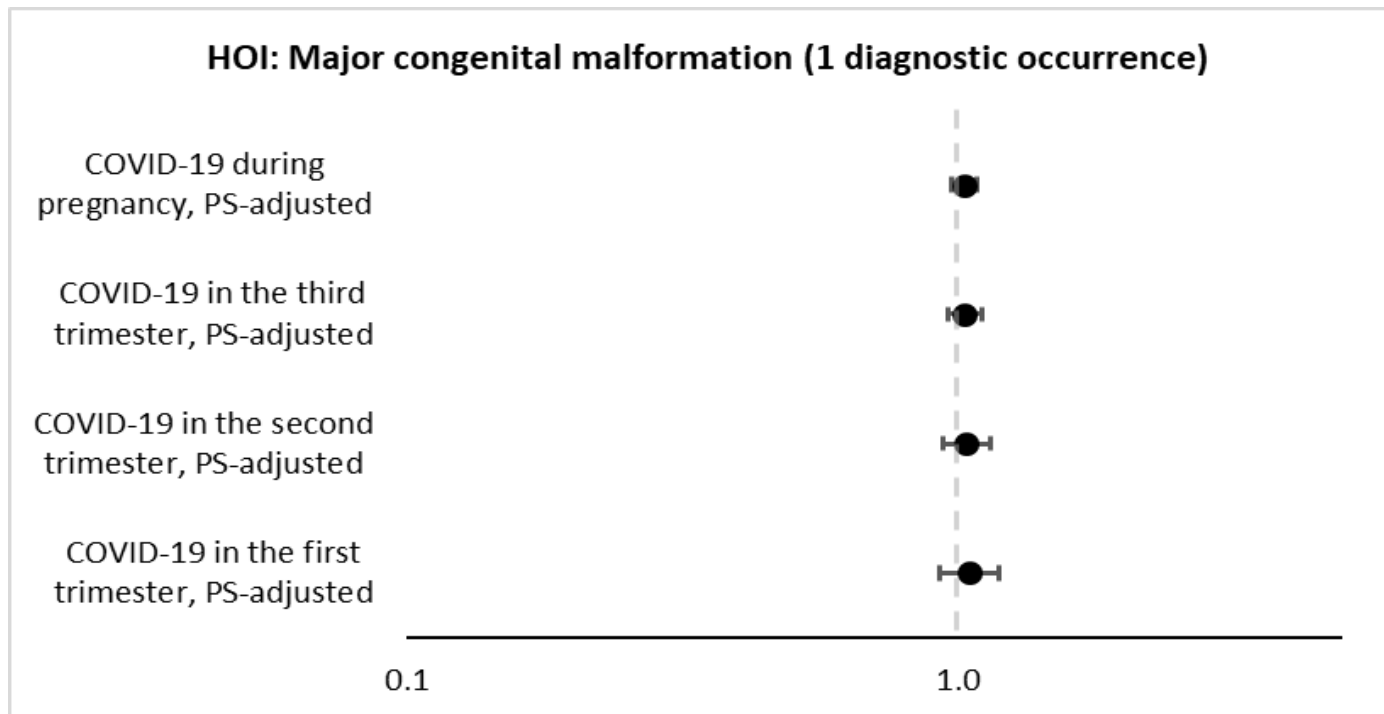
\*Small for gestational age observed in the 7 days after live birth delivery in the mother or infant's claims.

Figure 2c. Forest Plots of Effect Estimates for Risk of Neonatal Microcephaly Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05



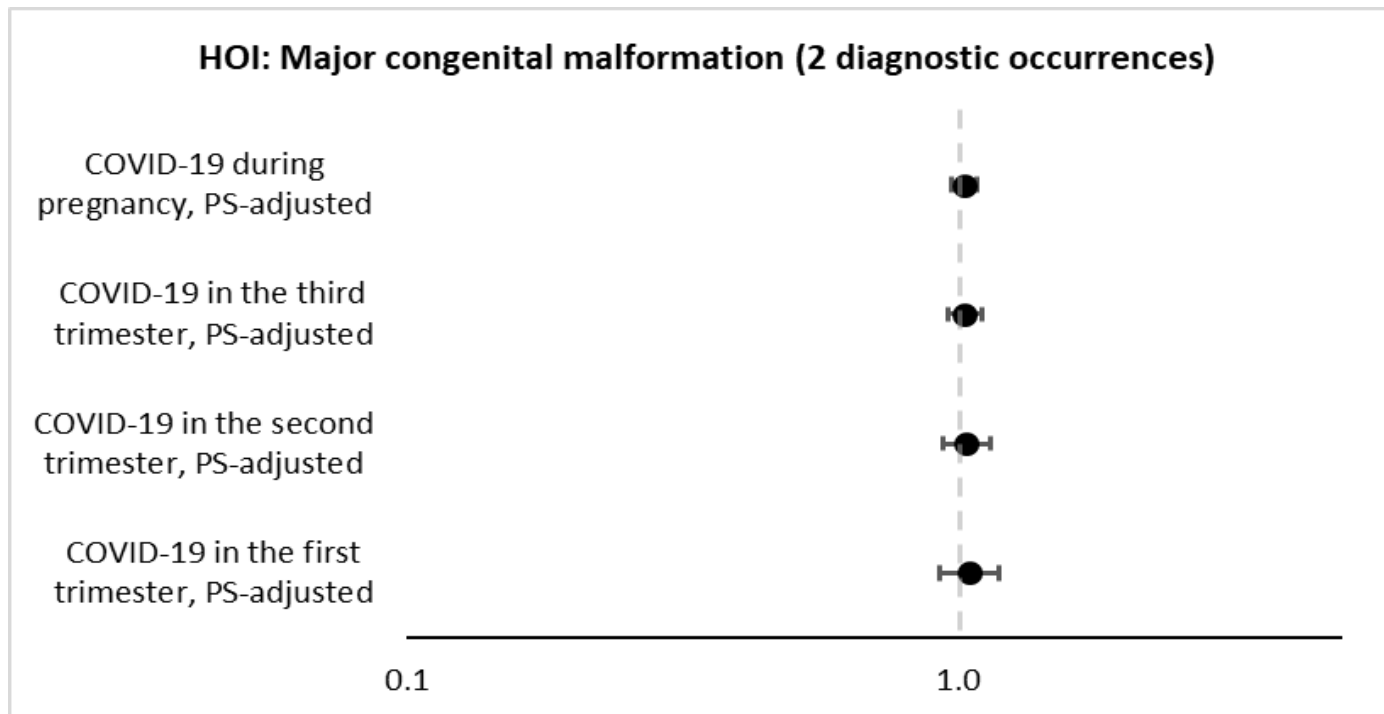
\*Microcephaly observed in the 90 days after live birth delivery in the infant's claims only.

Figure 2d. Forest Plots of Effect Estimates for Risk of Neonatal Major Congenital Malformation (1 Diagnostic Occurrence) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05



\*Major congenital malformation (1 diagnostic occurrence) observed in the 90 days after live birth delivery in the infant's claims only.

Figure 2e. Forest Plots of Effect Estimates for Risk of Neonatal Major Congenital Malformation (2 Diagnostic Occurrences) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05



\*Major congenital malformation (2 diagnostic occurrences) observed in the 90 days after live birth delivery in the infant's claims only.

**Table 3a. Effect Estimates for Risk of Neonatal Low Birth Weight Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Low birth weight in the 7 days after live birth delivery,</b>	<b>Number of</b>	<b>Number of HOIs</b>	<b>Risk per 1,000</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>mother or infant claims</b>	<b>pregnant patients</b>		<b>pregnant patients</b>		
<b>Severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Severe COVID-19 in the first trimester	19	0	0.00	-27.84 (-27.85, -27.84)	0.00
No evidence of COVID-19	4,310	120	27.84		
<b>COVID-19 in the second trimester</b>					
Severe COVID-19 in the second trimester	73	4	54.79	31.29 (31.24, 31.35)	2.33 (0.89, 6.13)
No evidence of COVID-19	6,298	148	23.50		
<b>COVID-19 in the third trimester</b>					
Severe COVID-19 in the third trimester	492	44	89.43	68.33 (68.30, 68.35)	4.24 (3.12, 5.76)
No evidence of COVID-19	12,274	259	21.10		
<b>COVID-19 at any time during pregnancy</b>					
Severe COVID-19 any time during pregnancy	610	50	81.97	59.53 (59.51, 59.55)	3.65 (2.76, 4.83)
No evidence of COVID-19	22,865	513	22.44		
<b>Non-severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Non-severe COVID-19 in the first trimester	4,291	95	22.14	-5.70 (-5.71, -5.7)	0.80 (0.61, 1.04)
No evidence of COVID-19	4,310	120	27.84		
<b>COVID-19 in the second trimester</b>					
Non-severe COVID-19 in the second trimester	6,225	139	22.33	-1.17 (-1.18, -1.16)	0.95 (0.76, 1.19)
No evidence of COVID-19	6,298	148	23.50		
<b>COVID-19 in the third trimester</b>					
Non-severe COVID-19 in the third trimester	11,782	217	18.42	-2.68 (-2.69, -2.68)	0.87 (0.73, 1.04)
No evidence of COVID-19	12,274	259	21.10		
<b>COVID-19 at any time during pregnancy</b>					
Non-severe COVID-19 any time during pregnancy	22,255	447	20.09	-2.35 (-2.35, -2.35)	0.90 (0.79, 1.01)
No evidence of COVID-19	22,865	513	22.44		

<sup>1</sup>Fixed ratio 1:1 propensity score matching was not performed by COVID-19 severity status. The size of the comparator cohort with no evidence of COVID-19 is derived from each trimester's 1:1 PS-matched analysis.

**Table 3b. Effect Estimates for Risk of Neonatal Small Gestational Age Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>Severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Severe COVID-19 in the first trimester	19	0	0.00	-27.15 (-27.15, -27.14)	0.00
No evidence of COVID-19	4,310	117	27.15		
<b>COVID-19 in the second trimester</b>					
Severe COVID-19 in the second trimester	73	1	13.70	-15.68 (-15.70, -15.65)	0.47 (0.07, 3.28)
No evidence of COVID-19	6,298	185	29.37		
<b>COVID-19 in the third trimester</b>					
Severe COVID-19 in the third trimester	492	15	30.49	2.22 (2.20, 2.23)	1.08 (0.65, 1.79)
No evidence of COVID-19	12,274	347	28.27		
<b>COVID-19 at any time during pregnancy</b>					
Severe COVID-19 any time during pregnancy	610	17	27.87	-2.66 (-2.67, -2.64)	0.91 (0.57, 1.47)
No evidence of COVID-19	22,865	698	30.53		
<b>Non-severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Non-severe COVID-19 in the first trimester	4,291	125	29.13	1.98 (1.98, 1.99)	1.07 (0.84, 1.38)
No evidence of COVID-19	4,310	117	27.15		
<b>COVID-19 in the second trimester</b>					
Non-severe COVID-19 in the second trimester	6,225	177	28.43	-0.94 (-0.95, -0.93)	0.97 (0.79, 1.19)
No evidence of COVID-19	6,298	185	29.37		
<b>COVID-19 in the third trimester</b>					
Non-severe COVID-19 in the third trimester	11,782	329	27.92	-0.35 (-0.35, -0.34)	0.99 (0.85, 1.15)
No evidence of COVID-19	12,274	347	28.27		
<b>COVID-19 at any time during pregnancy</b>					
Non-severe COVID-19 any time during pregnancy	22,255	630	28.31	-2.22 (-2.22, -2.22)	0.93 (0.83, 1.03)
No evidence of COVID-19	22,865	698	30.53		

<sup>1</sup>Fixed ratio 1:1 propensity score matching was not performed by COVID-19 severity status. The size of the comparator cohort with no evidence of COVID-19 is derived from each trimester's 1:1 PS-matched analysis.



**Table 3c. Effect Estimates for Risk of Neonatal Microcephaly Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>						
<b>Microcephaly in the 90 days after live birth delivery, infant claims only</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>	
<b>Severe COVID-19, unadjusted analysis<sup>1</sup></b>						
<b>COVID-19 in the first trimester</b>						
Severe COVID-19 in the first trimester	19	0	0.00	-1.62 (-1.63, -1.62)	0.00	
No evidence of COVID-19	4,310	7	1.62			
<b>COVID-19 in the second trimester</b>						
Severe COVID-19 in the second trimester	73	0	0.00	-1.75 (-1.75, -1.75)	0.00	
No evidence of COVID-19	6,298	11	1.75			
<b>COVID-19 in the third trimester</b>						
Severe COVID-19 in the third trimester	492	2	4.07	2.92 (2.92, 2.93)	3.56 (0.81, 15.64)	
No evidence of COVID-19	12,274	14	1.14			
<b>COVID-19 at any time during pregnancy</b>						
Severe COVID-19 any time during pregnancy	610	2	3.28	2.32 (2.31, 2.32)	3.41 (0.80, 14.46)	
No evidence of COVID-19	22,865	22	0.96			
<b>Non-severe COVID-19, unadjusted analysis<sup>1</sup></b>						
<b>COVID-19 in the first trimester</b>						
Non-severe COVID-19 in the first trimester	4,291	6	1.40	-0.23 (-0.23, -0.22)	0.86 (0.29, 2.56)	
No evidence of COVID-19	4,310	7	1.62			
<b>COVID-19 in the second trimester</b>						
Non-severe COVID-19 in the second trimester	6,225	6	0.96	-0.78 (-0.78, -0.78)	0.55 (0.20, 1.49)	
No evidence of COVID-19	6,298	11	1.75			
<b>COVID-19 in the third trimester</b>						
Non-severe COVID-19 in the third trimester	11,782	16	1.36	0.22 (0.22, 0.22)	1.19 (0.58, 2.44)	
No evidence of COVID-19	12,274	14	1.14			
<b>COVID-19 at any time during pregnancy</b>						
Non-severe COVID-19 any time during pregnancy	22,255	28	1.26	0.30 (0.30, 0.30)	1.31 (0.75, 2.28)	
No evidence of COVID-19	22,865	22	0.96			

<sup>1</sup>Fixed ratio 1:1 propensity score matching was not performed by COVID-19 severity status. The size of the comparator cohort with no evidence of COVID-19 is derived from each trimester's 1:1 PS-matched analysis.

**Table 3d. Effect Estimates for Risk of Neonatal Major Congenital Malformation (1 Diagnostic Occurrence) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

<b>Neonatal health outcome of interest (HOI):</b>					
<b>Major congenital malformation<sup>2</sup> (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>	<b>Number of pregnant patients</b>	<b>Number of HOIs</b>	<b>Risk per 1,000 pregnant patients</b>	<b>Risk difference, 95% CI</b>	<b>Risk ratio, 95% CI</b>
<b>Severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Severe COVID-19 in the first trimester	19	2	105.26	1.32 (1.18, 1.46)	1.01 (0.27, 3.77)
No evidence of COVID-19	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
Severe COVID-19 in the second trimester	73	8	109.59	6.54 (6.47, 6.61)	1.06 (0.55, 2.05)
No evidence of COVID-19	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
Severe COVID-19 in the third trimester	492	69	140.24	38.89 (38.86, 38.92)	1.38 (1.10, 1.73)
No evidence of COVID-19	12,274	1,244	101.35		
<b>COVID-19 at any time during pregnancy</b>					
Severe COVID-19 any time during pregnancy	610	80	131.15	27.93 (27.91, 27.96)	1.27 (1.03, 1.56)
No evidence of COVID-19	22,865	2,360	103.21		
<b>Non-severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Non-severe COVID-19 in the first trimester	4,291	470	109.53	5.59 (5.57, 5.60)	1.05 (0.93, 1.19)
No evidence of COVID-19	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
Non-severe COVID-19 in the second trimester	6,225	666	106.99	3.94 (3.93, 3.95)	1.04 (0.94, 1.15)
No evidence of COVID-19	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
Non-severe COVID-19 in the third trimester	11,782	1,218	103.38	2.03 (2.02, 2.03)	1.02 (0.95, 1.10)
No evidence of COVID-19	12,274	1,244	101.35		
<b>COVID-19 at any time during pregnancy</b>					
Non-severe COVID-19 any time during pregnancy	22,255	2,349	105.55	2.33 (2.33, 2.34)	1.02 (0.97, 1.08)
No evidence of COVID-19	22,865	2,360	103.21		

<sup>1</sup>Fixed ratio 1:1 propensity score matching was not performed by COVID-19 severity status. The size of the comparator cohort with no evidence of COVID-19 is derived from each trimester's 1:1 PS-matched analysis.

<sup>2</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

**Table 3e. Effect Estimates for Risk of Neonatal Major Congenital Malformation (2 Diagnostic Occurrences) Among Pregnant Patients With COVID-19 per Trimester Compared to Pregnant Patients Without COVID-19 by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

Major congenital malformation <sup>2</sup> (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Number of pregnant patients	Number of HOIs	Risk per 1,000 pregnant patients	Risk difference, 95% CI	Risk ratio, 95% CI
<b>Severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Severe COVID-19 in the first trimester	19	2	105.26	1.32 (1.18, 1.46)	1.01 (0.27, 3.77)
No evidence of COVID-19	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
Severe COVID-19 in the second trimester	73	8	109.59	6.54 (6.47, 6.61)	1.06 (0.55, 2.05)
No evidence of COVID-19	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
Severe COVID-19 in the third trimester	492	69	140.24	38.89 (38.86, 38.92)	1.38 (1.10, 1.73)
No evidence of COVID-19	12,274	1,244	101.35		
<b>COVID-19 at any time during pregnancy</b>					
Severe COVID-19 any time during pregnancy	610	80	131.15	27.93 (27.91, 27.96)	1.27 (1.03, 1.56)
No evidence of COVID-19	22,865	2,360	103.21		
<b>Non-severe COVID-19, unadjusted analysis<sup>1</sup></b>					
<b>COVID-19 in the first trimester</b>					
Non-severe COVID-19 in the first trimester	4,291	470	109.53	5.59 (5.57, 5.60)	1.05 (0.93, 1.19)
No evidence of COVID-19	4,310	448	103.94		
<b>COVID-19 in the second trimester</b>					
Non-severe COVID-19 in the second trimester	6,225	666	106.99	3.94 (3.93, 3.95)	1.04 (0.94, 1.15)
No evidence of COVID-19	6,298	649	103.05		
<b>COVID-19 in the third trimester</b>					
Non-severe COVID-19 in the third trimester	11,782	1,218	103.38	2.03 (2.02, 2.03)	1.02 (0.95, 1.10)
No evidence of COVID-19	12,274	1,244	101.35		
<b>COVID-19 at any time during pregnancy</b>					
Non-severe COVID-19 any time during pregnancy	22,255	2,349	105.55	2.33 (2.33, 2.34)	1.02 (0.97, 1.08)
No evidence of COVID-19	22,865	2,360	103.21		

<sup>1</sup>Fixed ratio 1:1 propensity score matching was not performed by COVID-19 severity status. The size of the comparator cohort with no evidence of COVID-19 is derived from each trimester's 1:1 PS-matched analysis.

<sup>2</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

**Table 4. Neonates With Health Outcomes of Interest (HOI) Among Pregnant Patients With COVID-19 per Trimester Stratified by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

	Number	Percent	Rate per 1,000 pregnant patients by maternal COVID-19 severity status <sup>1</sup>
<b>COVID-19 in the first trimester</b>			
<b>Pregnant patients with COVID-19 per trimester, fixed ratio 1:1 propensity score matched analysis, caliper=0.05</b>			
Number of pregnant patients	4,310	-	-
Maternal COVID-19 severe status	19	0.4%	-
Maternal COVID-19 non-severe status	4,291	99.6%	-
<b>Neonatal HOI: Low birth weight in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with low birth weight	95	-	-
Maternal COVID-19 severe status	0	0.0%	0.00
Maternal COVID-19 non-severe status	95	100.0%	22.14
<b>Neonatal HOI: Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with small for gestational age	125	-	-
Maternal COVID-19 severe status	0	0.0%	0.00
Maternal COVID-19 non-severe status	125	100.0%	29.13
<b>Neonatal HOI: Microcephaly in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with low birth weight	6	-	-
Maternal COVID-19 severe status	0	0.0%	0.00
Maternal COVID-19 non-severe status	6	100.0%	1.40
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (1 diagnostic occurrence)	472	-	-
Maternal COVID-19 severe status	2	0.4%	105.26
Maternal COVID-19 non-severe status	470	99.6%	109.53
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (2 diagnostic occurrences)	472	-	-
Maternal COVID-19 severe status	2	0.4%	105.26
Maternal COVID-19 non-severe status	470	99.6%	109.53

**Table 4. Neonates With Health Outcomes of Interest (HOI) Among Pregnant Patients With COVID-19 per Trimester Stratified by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

	Number	Percent	Rate per 1,000 pregnant patients by maternal COVID-19 severity status <sup>1</sup>
<b>COVID-19 in the second trimester</b>			
<b>Pregnant patients with COVID-19 per trimester, fixed ratio 1:1 propensity score matched analysis, caliper=0.05</b>			
Number of pregnant patients	6,298	-	-
Maternal COVID-19 severe status	73	1.2%	-
Maternal COVID-19 non-severe status	6,225	98.8%	-
<b>Neonatal HOI: Low birth weight in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with low birth weight	143	-	-
Maternal COVID-19 severe status	4	2.8%	54.79
Maternal COVID-19 non-severe status	139	97.2%	22.33
<b>Neonatal HOI: Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with small for gestational age	178	-	-
Maternal COVID-19 severe status	1	0.6%	13.70
Maternal COVID-19 non-severe status	177	99.4%	28.43
<b>Neonatal HOI: Microcephaly in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with low birth weight	6	-	-
Maternal COVID-19 severe status	0	0.0%	0.00
Maternal COVID-19 non-severe status	6	100.0%	0.96
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (1 diagnostic occurrence)	674	-	-
Maternal COVID-19 severe status	8	1.2%	109.59
Maternal COVID-19 non-severe status	666	98.8%	106.99
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (2 diagnostic occurrences)	674	-	-
Maternal COVID-19 severe status	8	1.2%	109.59
Maternal COVID-19 non-severe status	666	98.8%	106.99

**Table 4. Neonates With Health Outcomes of Interest (HOI) Among Pregnant Patients With COVID-19 per Trimester Stratified by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

	Number	Percent	Rate per 1,000 pregnant patients by maternal COVID-19 severity status <sup>1</sup>
<b>COVID-19 in the third trimester</b>			
<b>Pregnant patients with COVID-19 per trimester, fixed ratio 1:1 propensity score matched analysis, caliper=0.05</b>			
Number of pregnant patients	12,274	-	-
Maternal COVID-19 severe status	492	4.0%	-
Maternal COVID-19 non-severe status	11,782	96.0%	-
<b>Neonatal HOI: Low birth weight in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with low birth weight	261	-	-
Maternal COVID-19 severe status	44	16.9%	89.43
Maternal COVID-19 non-severe status	217	83.1%	18.42
<b>Neonatal HOI: Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with small for gestational age	344	-	-
Maternal COVID-19 severe status	15	4.4%	30.49
Maternal COVID-19 non-severe status	329	95.6%	27.92
<b>Neonatal HOI: Microcephaly in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with low birth weight	18	-	-
Maternal COVID-19 severe status	2	11.1%	4.07
Maternal COVID-19 non-severe status	16	88.9%	1.36
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (1 diagnostic occurrence)	1,287	-	-
Maternal COVID-19 severe status	69	5.4%	140.24
Maternal COVID-19 non-severe status	1,218	94.6%	103.38
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (2 diagnostic occurrences)	1,287	-	-
Maternal COVID-19 severe status	69	5.4%	140.24
Maternal COVID-19 non-severe status	1,218	94.6%	103.38

**Table 4. Neonates With Health Outcomes of Interest (HOI) Among Pregnant Patients With COVID-19 per Trimester Stratified by COVID-19 Severity Status in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022**

	Number	Percent	Rate per 1,000 pregnant patients by maternal COVID-19 severity status <sup>1</sup>
<b>COVID-19 at any time during pregnancy</b>			
<b>Pregnant patients with COVID-19 per trimester, fixed ratio 1:1 propensity score matched analysis, caliper=0.05</b>			
Number of pregnant patients	22,865	-	-
Maternal COVID-19 severe status	610	2.7%	-
Maternal COVID-19 non-severe status	22,255	97.3%	-
<b>Neonatal HOI: Low birth weight in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with low birth weight	497	-	-
Maternal COVID-19 severe status	50	10.1%	81.97
Maternal COVID-19 non-severe status	447	89.9%	20.09
<b>Neonatal HOI: Small for gestational age in the 7 days after live birth delivery, mother or infant claims</b>			
Number of neonates with small for gestational age	647	-	-
Maternal COVID-19 severe status	17	2.6%	27.87
Maternal COVID-19 non-severe status	630	97.4%	28.31
<b>Neonatal HOI: Microcephaly in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with low birth weight	30	-	-
Maternal COVID-19 severe status	2	6.7%	3.28
Maternal COVID-19 non-severe status	28	93.3%	1.26
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (1 diagnostic occurrence)	2,429	-	-
Maternal COVID-19 severe status	80	3.3%	131.15
Maternal COVID-19 non-severe status	2,349	96.7%	105.55
<b>Neonatal HOI: Major congenital malformation<sup>1</sup> (MCM) (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only</b>			
Number of neonates with MCM (2 diagnostic occurrences)	2,429	-	-
Maternal COVID-19 severe status	80	3.3%	131.15
Maternal COVID-19 non-severe status	2,349	96.7%	105.55

<sup>1</sup>Rate for each HOI was estimated using counts of HOI by severity status among total severe and non-severe COVID-19 pregnant patients in each trimester period or any time during pregnancy.

<sup>2</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

~Data presented by a dash, asterisk, or period represent missing information. This table may not use all data representations.

**Table 5a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the First Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the first trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Any use in the 30 days prior to COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	4,310		4,310		4,310		4,310	
<i>CONSIGN medications of interest</i>								
Analgesics	117	2.7%	4,193	97.3%	100	2.3%	4,210	97.7%
Antibacterials	479	11.1%	3,831	88.9%	294	6.8%	4,016	93.2%
Anticoagulants	57	1.3%	4,253	98.7%	24	0.6%	4,286	99.4%
Antihypertensives	98	2.3%	4,212	97.7%	67	1.6%	4,243	98.4%
Antiinflammatories	55	1.3%	4,255	98.7%	41	1.0%	4,269	99.0%
Antimycobacterials	0	0.0%	4,310	100.0%	1	0.0%	4,309	100.0%
Antimycotics	49	1.1%	4,261	98.9%	32	0.7%	4,278	99.3%
Antivirals	61	1.4%	4,249	98.6%	44	1.0%	4,266	99.0%
Corticosteroids	205	4.8%	4,105	95.2%	149	3.5%	4,161	96.5%
Diabetes medications	88	2.0%	4,222	98.0%	84	1.9%	4,226	98.1%
Immune sera globulins	14	0.3%	4,296	99.7%	16	0.4%	4,294	99.6%
Immunostimulants	3	0.1%	4,307	99.9%	2	0.0%	4,308	100.0%
Immunosuppressants	27	0.6%	4,283	99.4%	11	0.3%	4,299	99.7%
Medicines for obstructive airway disease	135	3.1%	4,175	96.9%	115	2.7%	4,195	97.3%
Nasal preparations	99	2.3%	4,211	97.7%	75	1.7%	4,235	98.3%
Psychoanaleptics	358	8.3%	3,952	91.7%	370	8.6%	3,940	91.4%
Psycholeptics	124	2.9%	4,186	97.1%	109	2.5%	4,201	97.5%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	10	0.2%	4,300	99.8%	9	0.2%	4,301	99.8%
Azithromycin	103	2.4%	4,207	97.6%	45	1.0%	4,265	99.0%
Baricitinib	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Chloroquine	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Corticosteroids inhaled	38	0.9%	4,272	99.1%	48	1.1%	4,262	98.9%
Corticosteroids other	172	4.0%	4,138	96.0%	105	2.4%	4,205	97.6%
Dexamethasone	37	0.9%	4,273	99.1%	16	0.4%	4,294	99.6%
Heparin	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%



**Table 5a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the First Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the first trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	12	0.3%	4,298	99.7%	7	0.2%	4,303	99.8%
Interferon-beta	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Interleukin 6 inhibitors	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Lopinavir Ritonavir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Low molecular weight heparin	23	0.5%	4,287	99.5%	13	0.3%	4,297	99.7%
Methylprednisolone	8	0.2%	4,302	99.8%	4	0.1%	4,306	99.9%
Molnupiravir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Monoclonal antibodies	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
NSAIDs other	45	1.0%	4,265	99.0%	29	0.7%	4,281	99.3%
Paxlovid	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Prednisolone	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Remdesivir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
<i>Vaccinations</i>								
Influenza vaccination	252	5.8%	4,058	94.2%	333	7.7%	3,977	92.3%
Pertussis vaccination	10	0.2%	4,300	99.8%	13	0.3%	4,297	99.7%
Pneumococcal vaccination	0	0.0%	4,310	100.0%	3	0.1%	4,307	99.9%
<b>Any use in the 30 days after (and including) COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	4,310		4,310		4,310		4,310	
<i>CONSIGN medications of interest</i>								
Analgesics	138	3.2%	4,172	96.8%	90	2.1%	4,220	97.9%
Antibacterials	624	14.5%	3,686	85.5%	264	6.1%	4,046	93.9%
Anticoagulants	120	2.8%	4,190	97.2%	61	1.4%	4,249	98.6%
Antihypertensives	97	2.3%	4,213	97.7%	89	2.1%	4,221	97.9%
Antiinflammatories	39	0.9%	4,271	99.1%	24	0.6%	4,286	99.4%
Antimycobacterials	1	0.0%	4,309	100.0%	1	0.0%	4,309	100.0%
Antimycotics	40	0.9%	4,270	99.1%	20	0.5%	4,290	99.5%
Antivirals	57	1.3%	4,253	98.7%	34	0.8%	4,276	99.2%
Corticosteroids	263	6.1%	4,047	93.9%	104	2.4%	4,206	97.6%
Diabetes medications	81	1.9%	4,229	98.1%	80	1.9%	4,230	98.1%

**Table 5a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the First Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the first trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	12	0.3%	4,298	99.7%	20	0.5%	4,290	99.5%
Immunostimulants	4	0.1%	4,306	99.9%	2	0.0%	4,308	100.0%
Immunosuppressants	24	0.6%	4,286	99.4%	12	0.3%	4,298	99.7%
Medicines for obstructive airway disease	251	5.8%	4,059	94.2%	89	2.1%	4,221	97.9%
Nasal preparations	138	3.2%	4,172	96.8%	59	1.4%	4,251	98.6%
Psychoanaleptics	306	7.1%	4,004	92.9%	307	7.1%	4,003	92.9%
Psycholeptics	109	2.5%	4,201	97.5%	76	1.8%	4,234	98.2%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	5	0.1%	4,305	99.9%	5	0.1%	4,305	99.9%
Azithromycin	228	5.3%	4,082	94.7%	42	1.0%	4,268	99.0%
Baricitinib	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Chloroquine	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Corticosteroids inhaled	64	1.5%	4,246	98.5%	36	0.8%	4,274	99.2%
Corticosteroids other	213	4.9%	4,097	95.1%	69	1.6%	4,241	98.4%
Dexamethasone	59	1.4%	4,251	98.6%	9	0.2%	4,301	99.8%
Heparin	2	0.0%	4,308	100.0%	0	0.0%	4,310	100.0%
Hydroxychloroquine	18	0.4%	4,292	99.6%	5	0.1%	4,305	99.9%
Interferon-beta	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Interleukin 6 inhibitors	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Lopinavir Ritonavir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Low molecular weight heparin	50	1.2%	4,260	98.8%	26	0.6%	4,284	99.4%
Methylprednisolone	11	0.3%	4,299	99.7%	4	0.1%	4,306	99.9%
Molnupiravir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Monoclonal antibodies	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
NSAIDs other	27	0.6%	4,283	99.4%	16	0.4%	4,294	99.6%
Paxlovid	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
Prednisolone	0	0.0%	4,310	100.0%	1	0.0%	4,309	100.0%
Remdesivir	0	0.0%	4,310	100.0%	0	0.0%	4,310	100.0%
<i>Vaccinations</i>								

**Table 5a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the First Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the first trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	276	6.4%	4,034	93.6%	309	7.2%	4,001	92.8%
Pertussis vaccination	6	0.1%	4,304	99.9%	12	0.3%	4,298	99.7%
Pneumococcal vaccination	1	0.0%	4,309	100.0%	1	0.0%	4,309	100.0%

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

<sup>2</sup>The calendar date of COVID-19 in the pregnant patient with COVID-19 is used as the referential index date for the matched pregnant patient without COVID-19 to anchor medication use.

**Table 5b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Second Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the second trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Any use in the 30 days prior to COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	6,298		6,298		6,298		6,298	
<i>CONSIGN medications of interest</i>								
Analgesics	182	2.9%	6,116	97.1%	159	2.5%	6,139	97.5%
Antibacterials	581	9.2%	5,717	90.8%	445	7.1%	5,853	92.9%
Anticoagulants	109	1.7%	6,189	98.3%	89	1.4%	6,209	98.6%
Antihypertensives	126	2.0%	6,172	98.0%	101	1.6%	6,197	98.4%
Antiinflammatories	64	1.0%	6,234	99.0%	44	0.7%	6,254	99.3%
Antimycobacterials	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Antimycotics	74	1.2%	6,224	98.8%	39	0.6%	6,259	99.4%
Antivirals	83	1.3%	6,215	98.7%	54	0.9%	6,244	99.1%
Corticosteroids	151	2.4%	6,147	97.6%	168	2.7%	6,130	97.3%
Diabetes medications	126	2.0%	6,172	98.0%	138	2.2%	6,160	97.8%
Immune sera globulins	11	0.2%	6,287	99.8%	17	0.3%	6,281	99.7%
Immunostimulants	2	0.0%	6,296	100.0%	4	0.1%	6,294	99.9%
Immunosuppressants	30	0.5%	6,268	99.5%	18	0.3%	6,280	99.7%
Medicines for obstructive airway disease	138	2.2%	6,160	97.8%	90	1.4%	6,208	98.6%
Nasal preparations	75	1.2%	6,223	98.8%	67	1.1%	6,231	98.9%
Psychoanaleptics	446	7.1%	5,852	92.9%	456	7.2%	5,842	92.8%
Psycholeptics	148	2.3%	6,150	97.7%	130	2.1%	6,168	97.9%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	5	0.1%	6,293	99.9%	5	0.1%	6,293	99.9%
Azithromycin	104	1.7%	6,194	98.3%	58	0.9%	6,240	99.1%
Baricitinib	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Chloroquine	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Corticosteroids inhaled	33	0.5%	6,265	99.5%	34	0.5%	6,264	99.5%
Corticosteroids other	126	2.0%	6,172	98.0%	141	2.2%	6,157	97.8%
Dexamethasone	21	0.3%	6,277	99.7%	23	0.4%	6,275	99.6%
Heparin	1	0.0%	6,297	100.0%	0	0.0%	6,298	100.0%

**Table 5b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Second Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the second trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	12	0.2%	6,286	99.8%	9	0.1%	6,289	99.9%
Interferon-beta	1	0.0%	6,297	100.0%	1	0.0%	6,297	100.0%
Interleukin 6 inhibitors	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Lopinavir Ritonavir	1	0.0%	6,297	100.0%	0	0.0%	6,298	100.0%
Low molecular weight heparin	50	0.8%	6,248	99.2%	39	0.6%	6,259	99.4%
Methylprednisolone	13	0.2%	6,285	99.8%	11	0.2%	6,287	99.8%
Molnupiravir	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Monoclonal antibodies	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
NSAIDs other	48	0.8%	6,250	99.2%	35	0.6%	6,263	99.4%
Paxlovid	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Prednisolone	0	0.0%	6,298	100.0%	2	0.0%	6,296	100.0%
Remdesivir	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
<i>Vaccinations</i>								
Influenza vaccination	386	6.1%	5,912	93.9%	415	6.6%	5,883	93.4%
Pertussis vaccination	6	0.1%	6,292	99.9%	21	0.3%	6,277	99.7%
Pneumococcal vaccination	4	0.1%	6,294	99.9%	1	0.0%	6,297	100.0%
<b>Any use in the 30 days after (and including) COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	6,298		6,298		6,298		6,298	
<i>CONSIGN medications of interest</i>								
Analgesics	230	3.7%	6,068	96.3%	154	2.4%	6,144	97.6%
Antibacterials	914	14.5%	5,384	85.5%	428	6.8%	5,870	93.2%
Anticoagulants	209	3.3%	6,089	96.7%	100	1.6%	6,198	98.4%
Antihypertensives	146	2.3%	6,152	97.7%	121	1.9%	6,177	98.1%
Antiinflammatories	49	0.8%	6,249	99.2%	43	0.7%	6,255	99.3%
Antimycobacterials	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Antimycotics	75	1.2%	6,223	98.8%	44	0.7%	6,254	99.3%
Antivirals	74	1.2%	6,224	98.8%	58	0.9%	6,240	99.1%
Corticosteroids	345	5.5%	5,953	94.5%	132	2.1%	6,166	97.9%
Diabetes medications	141	2.2%	6,157	97.8%	150	2.4%	6,148	97.6%

**Table 5b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Second Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the second trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	93	1.5%	6,205	98.5%	102	1.6%	6,196	98.4%
Immunostimulants	0	0.0%	6,298	100.0%	5	0.1%	6,293	99.9%
Immunosuppressants	29	0.5%	6,269	99.5%	16	0.3%	6,282	99.7%
Medicines for obstructive airway disease	362	5.7%	5,936	94.3%	90	1.4%	6,208	98.6%
Nasal preparations	194	3.1%	6,104	96.9%	73	1.2%	6,225	98.8%
Psychoanaleptics	460	7.3%	5,838	92.7%	463	7.4%	5,835	92.6%
Psycholeptics	154	2.4%	6,144	97.6%	148	2.3%	6,150	97.7%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	7	0.1%	6,291	99.9%	4	0.1%	6,294	99.9%
Azithromycin	363	5.8%	5,935	94.2%	57	0.9%	6,241	99.1%
Baricitinib	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Chloroquine	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Corticosteroids inhaled	86	1.4%	6,212	98.6%	37	0.6%	6,261	99.4%
Corticosteroids other	288	4.6%	6,010	95.4%	103	1.6%	6,195	98.4%
Dexamethasone	92	1.5%	6,206	98.5%	16	0.3%	6,282	99.7%
Heparin	0	0.0%	6,298	100.0%	1	0.0%	6,297	100.0%
Hydroxychloroquine	15	0.2%	6,283	99.8%	6	0.1%	6,292	99.9%
Interferon-beta	1	0.0%	6,297	100.0%	1	0.0%	6,297	100.0%
Interleukin 6 inhibitors	1	0.0%	6,297	100.0%	0	0.0%	6,298	100.0%
Lopinavir Ritonavir	1	0.0%	6,297	100.0%	0	0.0%	6,298	100.0%
Low molecular weight heparin	101	1.6%	6,197	98.4%	38	0.6%	6,260	99.4%
Methylprednisolone	11	0.2%	6,287	99.8%	7	0.1%	6,291	99.9%
Molnupiravir	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
Monoclonal antibodies	0	0.0%	6,298	100.0%	0	0.0%	6,298	100.0%
NSAIDs other	42	0.7%	6,256	99.3%	31	0.5%	6,267	99.5%
Paxlovid	9	0.1%	6,289	99.9%	0	0.0%	6,298	100.0%
Prednisolone	1	0.0%	6,297	100.0%	1	0.0%	6,297	100.0%
Remdesivir	2	0.0%	6,296	100.0%	0	0.0%	6,298	100.0%
<i>Vaccinations</i>								

**Table 5b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Second Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the second trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	262	4.2%	6,036	95.8%	351	5.6%	5,947	94.4%
Pertussis vaccination	350	5.6%	5,948	94.4%	381	6.0%	5,917	94.0%
Pneumococcal vaccination	1	0.0%	6,297	100.0%	0	0.0%	6,298	100.0%

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

<sup>2</sup>The calendar date of COVID-19 in the pregnant patient with COVID-19 is used as the referential index date for the matched pregnant patient without COVID-19 to anchor medication use.

**Table 5c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Third Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the third trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Any use in the 30 days prior to COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	12,274		12,274		12,274		12,274	
<i>CONSIGN medications of interest</i>								
Analgesics	293	2.4%	11,981	97.6%	717	5.8%	11,557	94.2%
Antibacterials	857	7.0%	11,417	93.0%	685	5.6%	11,589	94.4%
Anticoagulants	218	1.8%	12,056	98.2%	194	1.6%	12,080	98.4%
Antihypertensives	258	2.1%	12,016	97.9%	367	3.0%	11,907	97.0%
Antiinflammatories	47	0.4%	12,227	99.6%	775	6.3%	11,499	93.7%
Antimycobacterials	1	0.0%	12,273	100.0%	0	0.0%	12,274	100.0%
Antimycotics	115	0.9%	12,159	99.1%	78	0.6%	12,196	99.4%
Antivirals	259	2.1%	12,015	97.9%	249	2.0%	12,025	98.0%
Corticosteroids	238	1.9%	12,036	98.1%	189	1.5%	12,085	98.5%
Diabetes medications	397	3.2%	11,877	96.8%	380	3.1%	11,894	96.9%
Immune sera globulins	304	2.5%	11,970	97.5%	310	2.5%	11,964	97.5%
Immunostimulants	5	0.0%	12,269	100.0%	4	0.0%	12,270	100.0%
Immunosuppressants	45	0.4%	12,229	99.6%	34	0.3%	12,240	99.7%
Medicines for obstructive airway disease	262	2.1%	12,012	97.9%	211	1.7%	12,063	98.3%
Nasal preparations	162	1.3%	12,112	98.7%	137	1.1%	12,137	98.9%
Psychoanaleptics	697	5.7%	11,577	94.3%	784	6.4%	11,490	93.6%
Psycholeptics	205	1.7%	12,069	98.3%	206	1.7%	12,068	98.3%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	3	0.0%	12,271	100.0%	3	0.0%	12,271	100.0%
Azithromycin	222	1.8%	12,052	98.2%	93	0.8%	12,181	99.2%
Baricitinib	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Chloroquine	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Corticosteroids inhaled	71	0.6%	12,203	99.4%	68	0.6%	12,206	99.4%
Corticosteroids other	255	2.1%	12,019	97.9%	210	1.7%	12,064	98.3%
Dexamethasone	36	0.3%	12,238	99.7%	25	0.2%	12,249	99.8%
Heparin	28	0.2%	12,246	99.8%	11	0.1%	12,263	99.9%



**Table 5c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Third Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the third trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	25	0.2%	12,249	99.8%	13	0.1%	12,261	99.9%
Interferon-beta	1	0.0%	12,273	100.0%	1	0.0%	12,273	100.0%
Interleukin 6 inhibitors	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Lopinavir Ritonavir	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Low molecular weight heparin	75	0.6%	12,199	99.4%	72	0.6%	12,202	99.4%
Methylprednisolone	14	0.1%	12,260	99.9%	8	0.1%	12,266	99.9%
Molnupiravir	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Monoclonal antibodies	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
NSAIDs other	41	0.3%	12,233	99.7%	776	6.3%	11,498	93.7%
Paxlovid	31	0.3%	12,243	99.7%	2	0.0%	12,272	100.0%
Prednisolone	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Remdesivir	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
<i>Vaccinations</i>								
Influenza vaccination	492	4.0%	11,782	96.0%	479	3.9%	11,795	96.1%
Pertussis vaccination	2,079	16.9%	10,195	83.1%	2,310	18.8%	9,964	81.2%
Pneumococcal vaccination	2	0.0%	12,272	100.0%	1	0.0%	12,273	100.0%
<b>Any use in the 30 days after (and including) COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	12,274		12,274		12,274		12,274	
<i>CONSIGN medications of interest</i>								
Analgesics	2,110	17.2%	10,164	82.8%	1,527	12.4%	10,747	87.6%
Antibacterials	1579	12.9%	10,695	87.1%	930	7.6%	11,344	92.4%
Anticoagulants	611	5.0%	11,663	95.0%	200	1.6%	12,074	98.4%
Antihypertensives	650	5.3%	11,624	94.7%	561	4.6%	11,713	95.4%
Antiinflammatories	2,766	22.5%	9,508	77.5%	2,090	17.0%	10,184	83.0%
Antimycobacterials	1	0.0%	12,273	100.0%	2	0.0%	12,272	100.0%
Antimycotics	152	1.2%	12,122	98.8%	141	1.1%	12,133	98.9%
Antivirals	264	2.2%	12,010	97.8%	244	2.0%	12,030	98.0%
Corticosteroids	577	4.7%	11,697	95.3%	232	1.9%	12,042	98.1%
Diabetes medications	324	2.6%	11,950	97.4%	351	2.9%	11,923	97.1%

**Table 5c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Third Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the third trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	200	1.6%	12,074	98.4%	166	1.4%	12,108	98.6%
Immunostimulants	5	0.0%	12,269	100.0%	7	0.1%	12,267	99.9%
Immunosuppressants	44	0.4%	12,230	99.6%	43	0.4%	12,231	99.6%
Medicines for obstructive airway disease	551	4.5%	11,723	95.5%	200	1.6%	12,074	98.4%
Nasal preparations	316	2.6%	11,958	97.4%	121	1.0%	12,153	99.0%
Psychoanaleptics	890	7.3%	11,384	92.7%	879	7.2%	11,395	92.8%
Psycholeptics	284	2.3%	11,990	97.7%	262	2.1%	12,012	97.9%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	15	0.1%	12,259	99.9%	15	0.1%	12,259	99.9%
Azithromycin	502	4.1%	11,772	95.9%	94	0.8%	12,180	99.2%
Baricitinib	7	0.1%	12,267	99.9%	0	0.0%	12,274	100.0%
Chloroquine	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Corticosteroids inhaled	155	1.3%	12,119	98.7%	60	0.5%	12,214	99.5%
Corticosteroids other	557	4.5%	11,717	95.5%	261	2.1%	12,013	97.9%
Dexamethasone	210	1.7%	12,064	98.3%	40	0.3%	12,234	99.7%
Heparin	29	0.2%	12,245	99.8%	19	0.2%	12,255	99.8%
Hydroxychloroquine	29	0.2%	12,245	99.8%	12	0.1%	12,262	99.9%
Interferon-beta	2	0.0%	12,272	100.0%	1	0.0%	12,273	100.0%
Interleukin 6 inhibitors	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Lopinavir Ritonavir	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Low molecular weight heparin	345	2.8%	11,929	97.2%	79	0.6%	12,195	99.4%
Methylprednisolone	29	0.2%	12,245	99.8%	9	0.1%	12,265	99.9%
Molnupiravir	0	0.0%	12,274	100.0%	0	0.0%	12,274	100.0%
Monoclonal antibodies	17	0.1%	12,257	99.9%	0	0.0%	12,274	100.0%
NSAIDs other	2,776	22.6%	9,498	77.4%	2,089	17.0%	10,185	83.0%
Paxlovid	43	0.4%	12,231	99.6%	4	0.0%	12,270	100.0%
Prednisolone	3	0.0%	12,271	100.0%	2	0.0%	12,272	100.0%
Remdesivir	3	0.0%	12,271	100.0%	0	0.0%	12,274	100.0%
<i>Vaccinations</i>								

**Table 5c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Third Trimester Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 in the third trimester				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	267	2.2%	12,007	97.8%	377	3.1%	11,897	96.9%
Pertussis vaccination	1,705	13.9%	10,569	86.1%	1,696	13.8%	10,578	86.2%
Pneumococcal vaccination	1	0.0%	12,273	100.0%	1	0.0%	12,273	100.0%

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

<sup>2</sup>The calendar date of COVID-19 in the pregnant patient with COVID-19 is used as the referential index date for the matched pregnant patient without COVID-19 to anchor medication use.

**Table 5d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 Any Time During Pregnancy Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 any time during pregnancy				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Any use in the 30 days prior to COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	22,865		22,865		22,865		22,865	
<i>CONSIGN medications of interest</i>								
Analgesics	591	2.6%	22,274	97.4%	962	4.2%	21,903	95.8%
Antibacterials	1,916	8.4%	20,949	91.6%	1,447	6.3%	21,418	93.7%
Anticoagulants	383	1.7%	22,482	98.3%	328	1.4%	22,537	98.6%
Antihypertensives	482	2.1%	22,383	97.9%	578	2.5%	22,287	97.5%
Antiinflammatories	165	0.7%	22,700	99.3%	828	3.6%	22,037	96.4%
Antimycobacterials	1	0.0%	22,864	100.0%	0	0.0%	22,865	100.0%
Antimycotics	238	1.0%	22,627	99.0%	151	0.7%	22,714	99.3%
Antivirals	402	1.8%	22,463	98.2%	363	1.6%	22,502	98.4%
Corticosteroids	593	2.6%	22,272	97.4%	483	2.1%	22,382	97.9%
Diabetes medications	611	2.7%	22,254	97.3%	578	2.5%	22,287	97.5%
Immune sera globulins	329	1.4%	22,536	98.6%	341	1.5%	22,524	98.5%
Immunostimulants	10	0.0%	22,855	100.0%	10	0.0%	22,855	100.0%
Immunosuppressants	101	0.4%	22,764	99.6%	69	0.3%	22,796	99.7%
Medicines for obstructive airway disease	534	2.3%	22,331	97.7%	404	1.8%	22,461	98.2%
Nasal preparations	335	1.5%	22,530	98.5%	268	1.2%	22,597	98.8%
Psychoanaleptics	1,499	6.6%	21,366	93.4%	1,577	6.9%	21,288	93.1%
Psycholeptics	477	2.1%	22,388	97.9%	479	2.1%	22,386	97.9%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	18	0.1%	22,847	99.9%	16	0.1%	22,849	99.9%
Azithromycin	429	1.9%	22,436	98.1%	231	1.0%	22,634	99.0%
Baricitinib	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Chloroquine	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Corticosteroids inhaled	141	0.6%	22,724	99.4%	152	0.7%	22,713	99.3%
Corticosteroids other	553	2.4%	22,312	97.6%	431	1.9%	22,434	98.1%
Dexamethasone	94	0.4%	22,771	99.6%	46	0.2%	22,819	99.8%
Heparin	29	0.1%	22,836	99.9%	16	0.1%	22,849	99.9%

**Table 5d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 Any Time During Pregnancy Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 any time during pregnancy				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	49	0.2%	22,816	99.8%	29	0.1%	22,836	99.9%
Interferon-beta	2	0.0%	22,863	100.0%	0	0.0%	22,865	100.0%
Interleukin 6 inhibitors	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Lopinavir Ritonavir	1	0.0%	22,864	100.0%	0	0.0%	22,865	100.0%
Low molecular weight heparin	147	0.6%	22,718	99.4%	125	0.5%	22,740	99.5%
Methylprednisolone	35	0.2%	22,830	99.8%	16	0.1%	22,849	99.9%
Molnupiravir	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Monoclonal antibodies	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
NSAIDs other	134	0.6%	22,731	99.4%	817	3.6%	22,048	96.4%
Paxlovid	31	0.1%	22,834	99.9%	1	0.0%	22,864	100.0%
Prednisolone	0	0.0%	22,865	100.0%	1	0.0%	22,864	100.0%
Remdesivir	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
<i>Vaccinations</i>								
Influenza vaccination	1,129	4.9%	21,736	95.1%	1,245	5.4%	21,620	94.6%
Pertussis vaccination	2,093	9.2%	20,772	90.8%	2,334	10.2%	20,531	89.8%
Pneumococcal vaccination	6	0.0%	22,859	100.0%	7	0.0%	22,858	100.0%
<b>Any use in the 30 days after (and including) COVID-19 index date<sup>2</sup></b>								
Number of pregnant patients	22,865		22,865		22,865		22,865	
<i>CONSIGN medications of interest</i>								
Analgesics	2,478	10.8%	20,387	89.2%	1,800	7.9%	21,065	92.1%
Antibacterials	3115	13.6%	19,750	86.4%	1,651	7.2%	21,214	92.8%
Anticoagulants	938	4.1%	21,927	95.9%	332	1.5%	22,533	98.5%
Antihypertensives	892	3.9%	21,973	96.1%	809	3.5%	22,056	96.5%
Antiinflammatories	2,852	12.5%	20,013	87.5%	2,068	9.0%	20,797	91.0%
Antimycobacterials	2	0.0%	22,863	100.0%	1	0.0%	22,864	100.0%
Antimycotics	267	1.2%	22,598	98.8%	175	0.8%	22,690	99.2%
Antivirals	395	1.7%	22,470	98.3%	327	1.4%	22,538	98.6%
Corticosteroids	1,183	5.2%	21,682	94.8%	458	2.0%	22,407	98.0%
Diabetes medications	546	2.4%	22,319	97.6%	572	2.5%	22,293	97.5%

**Table 5d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 Any Time During Pregnancy Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 any time during pregnancy				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	303	1.3%	22,562	98.7%	322	1.4%	22,543	98.6%
Immunostimulants	9	0.0%	22,856	100.0%	9	0.0%	22,856	100.0%
Immunosuppressants	97	0.4%	22,768	99.6%	76	0.3%	22,789	99.7%
Medicines for obstructive airway disease	1,161	5.1%	21,704	94.9%	362	1.6%	22,503	98.4%
Nasal preparations	645	2.8%	22,220	97.2%	253	1.1%	22,612	98.9%
Psychoanaleptics	1,654	7.2%	21,211	92.8%	1,657	7.2%	21,208	92.8%
Psycholeptics	547	2.4%	22,318	97.6%	440	1.9%	22,425	98.1%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	27	0.1%	22,838	99.9%	22	0.1%	22,843	99.9%
Azithromycin	1,092	4.8%	21,773	95.2%	197	0.9%	22,668	99.1%
Baricitinib	7	0.0%	22,858	100.0%	0	0.0%	22,865	100.0%
Chloroquine	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Corticosteroids inhaled	304	1.3%	22,561	98.7%	132	0.6%	22,733	99.4%
Corticosteroids other	1,056	4.6%	21,809	95.4%	412	1.8%	22,453	98.2%
Dexamethasone	360	1.6%	22,505	98.4%	49	0.2%	22,816	99.8%
Heparin	31	0.1%	22,834	99.9%	23	0.1%	22,842	99.9%
Hydroxychloroquine	62	0.3%	22,803	99.7%	35	0.2%	22,830	99.8%
Interferon-beta	3	0.0%	22,862	100.0%	4	0.0%	22,861	100.0%
Interleukin 6 inhibitors	1	0.0%	22,864	100.0%	0	0.0%	22,865	100.0%
Lopinavir Ritonavir	1	0.0%	22,864	100.0%	0	0.0%	22,865	100.0%
Low molecular weight heparin	495	2.2%	22,370	97.8%	136	0.6%	22,729	99.4%
Methylprednisolone	51	0.2%	22,814	99.8%	18	0.1%	22,847	99.9%
Molnupiravir	0	0.0%	22,865	100.0%	0	0.0%	22,865	100.0%
Monoclonal antibodies	17	0.1%	22,848	99.9%	0	0.0%	22,865	100.0%
NSAIDs other	2,844	12.4%	20,021	87.6%	2,057	9.0%	20,808	91.0%
Paxlovid	52	0.2%	22,813	99.8%	5	0.0%	22,860	100.0%
Prednisolone	4	0.0%	22,861	100.0%	2	0.0%	22,863	100.0%
Remdesivir	5	0.0%	22,860	100.0%	0	0.0%	22,865	100.0%
<i>Vaccinations</i>								

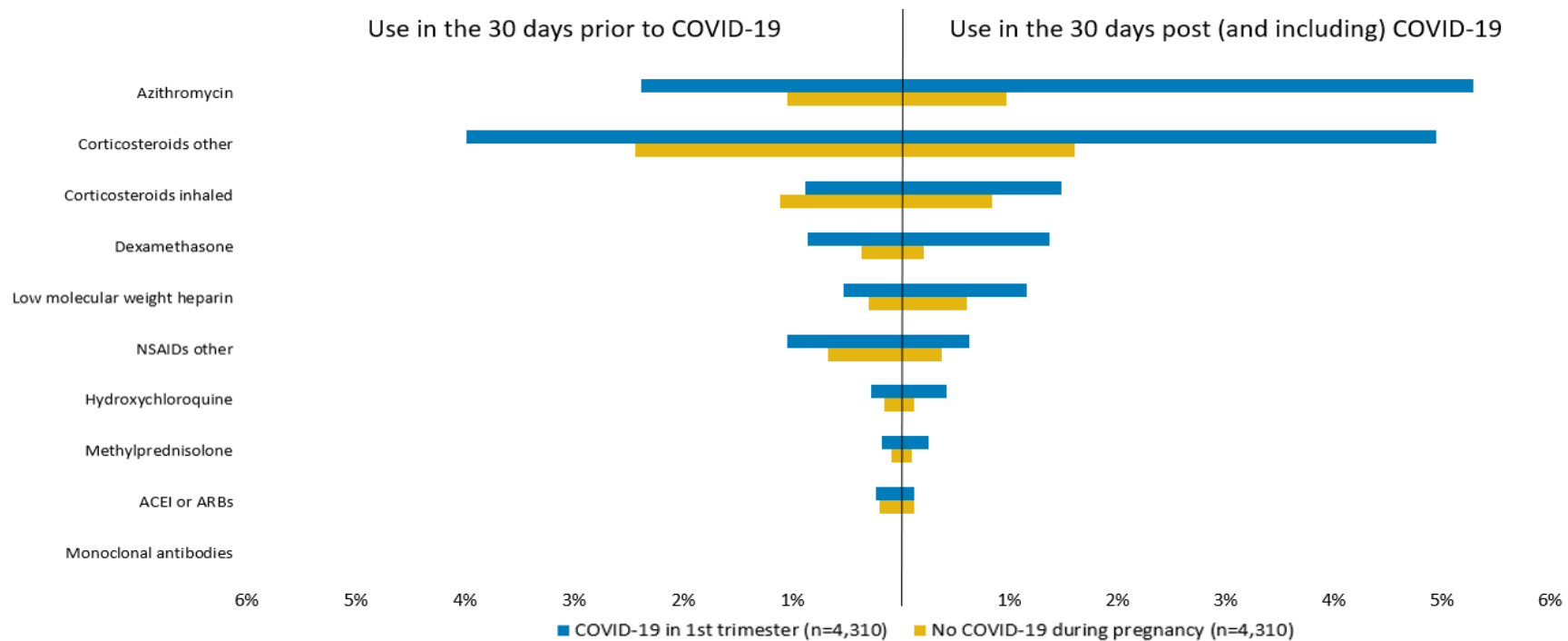
**Table 5d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 Any Time During Pregnancy Compared to Pregnant Patients Without COVID-19 in In the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

	Cohorts							
	Pregnant patients with live birth delivery and COVID-19 any time during pregnancy				Pregnant patients with live birth delivery and no evidence of COVID-19 <sup>1</sup>			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	803	3.5%	22,062	96.5%	1,006	4.4%	21,859	95.6%
Pertussis vaccination	2,058	9.0%	20,807	91.0%	2,056	9.0%	20,809	91.0%
Pneumococcal vaccination	3	0.0%	22,862	100.0%	4	0.0%	22,861	100.0%

<sup>1</sup>Pregnant patient without COVID-19 had the same gestational age pregnancy duration category and the same maternal age category as the matched pregnant patient with live birth delivery; additionally pregnant patient without COVID-19 had estimated pregnancy start date in the +/- 14 days after pregnancy start date of matched pregnant patient with COVID-19; evidence of endocrine disorders and respiratory diseases during the pre-pregnancy period or first trimester was also included in the PS adjusted analysis.

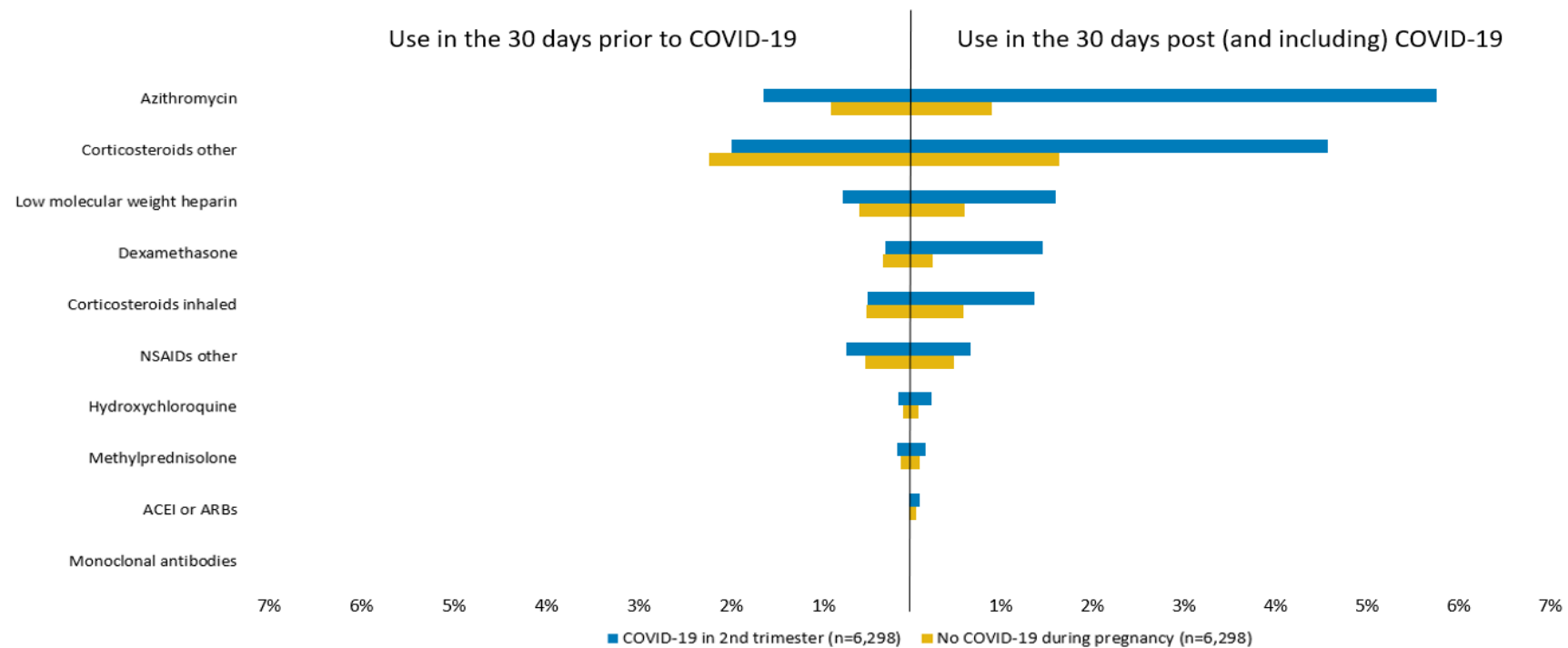
<sup>2</sup>The calendar date of COVID-19 in the pregnant patient with COVID-19 is used as the referential index date for the matched pregnant patient without COVID-19 to anchor medication use.

**Figure 3a. Use of Select Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the First Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

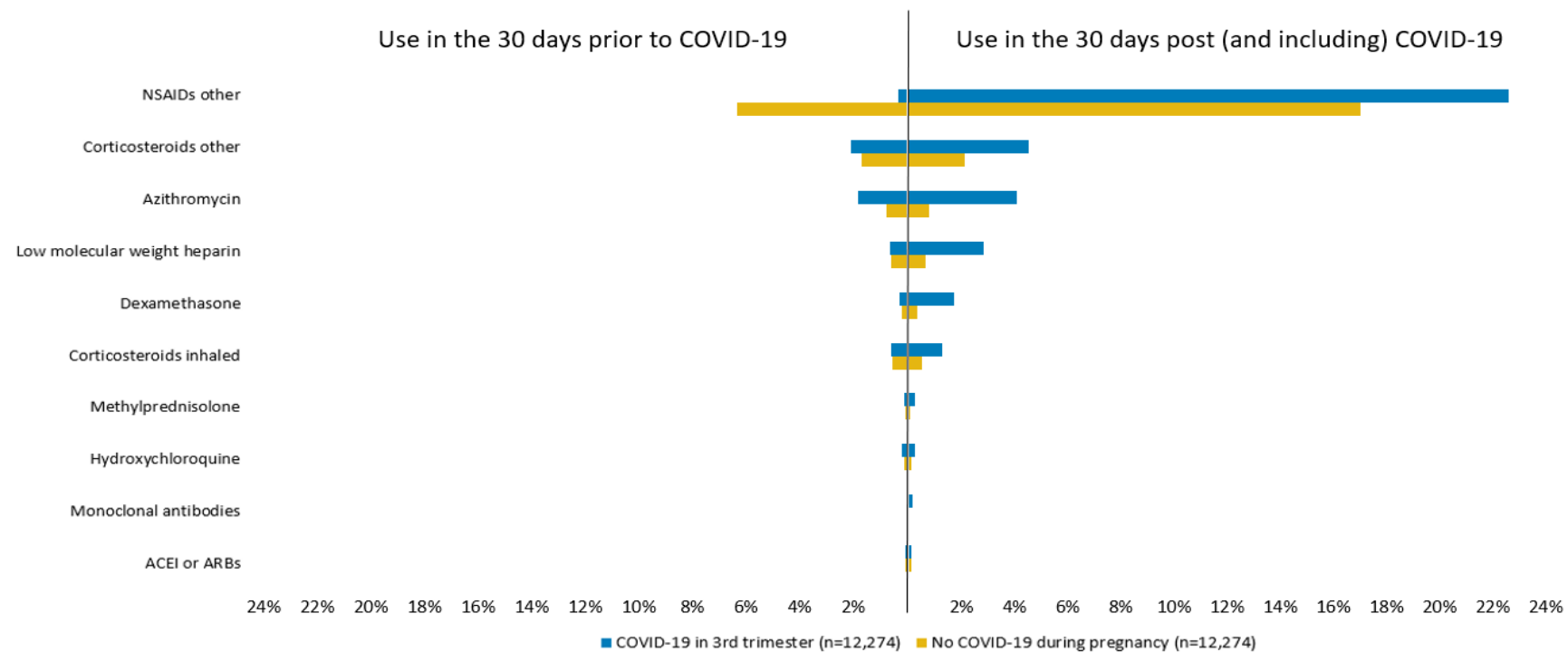




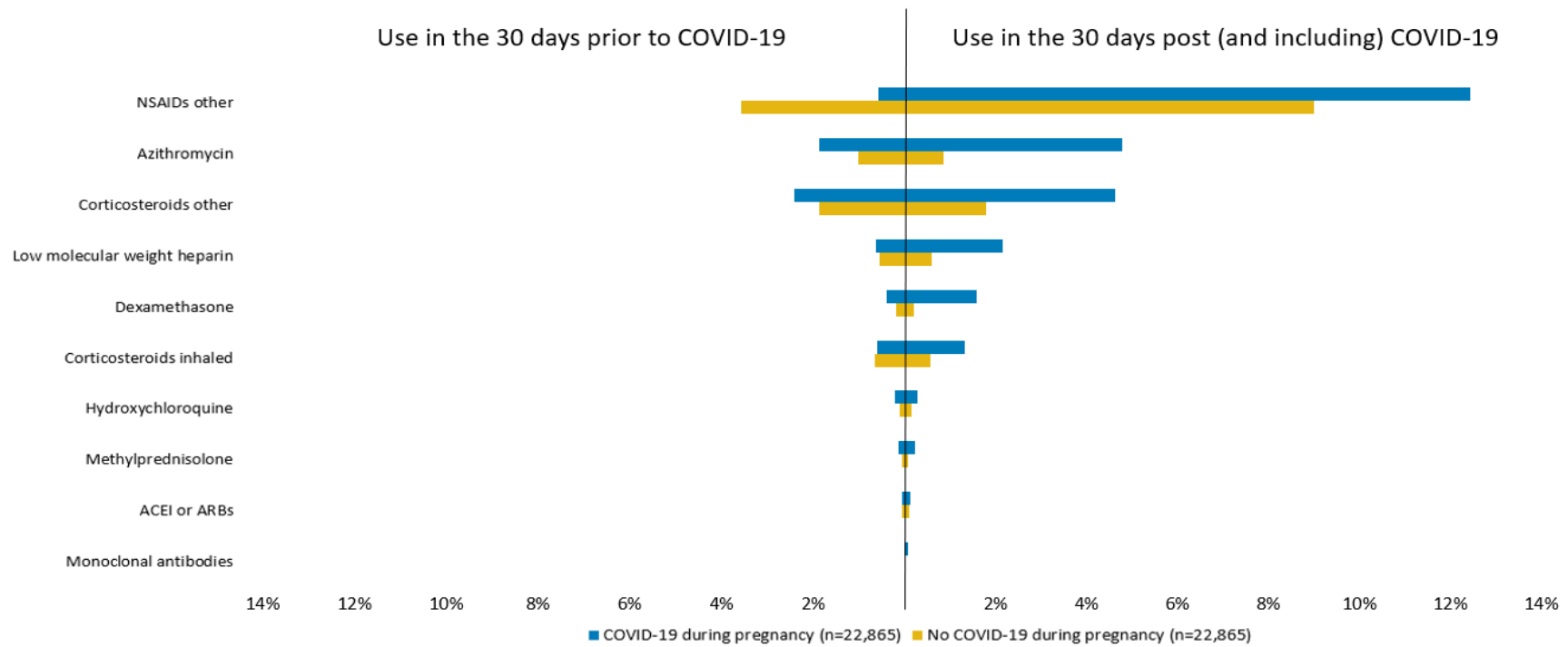
**Figure 3b. Use of Select Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Second Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**



**Figure 3c. Use of Select Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 in the Third Trimester Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**



**Figure 3d. Use of Select Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 During Pregnancy Compared to Pregnant Patients Without COVID-19 in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**



**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the first trimester</b>								
Number of linked maternal-infant pairs	95		95		95		95	
<i>CONSIGN medications of interest</i>								
Analgesics	3	3.2%	92	96.8%	6	6.3%	89	93.7%
Antibacterials	21	22.1%	74	77.9%	17	17.9%	78	82.1%
Anticoagulants	5	5.3%	90	94.7%	6	6.3%	89	93.7%
Antihypertensives	2	2.1%	93	97.9%	3	3.2%	92	96.8%
Antiinflammatories	5	5.3%	90	94.7%	2	2.1%	93	97.9%
Antimycobacterials	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Antimycotics	3	3.2%	92	96.8%	2	2.1%	93	97.9%
Antivirals	1	1.1%	94	98.9%	1	1.1%	94	98.9%
Corticosteroids	11	11.6%	84	88.4%	15	15.8%	80	84.2%
Diabetes medications	6	6.3%	89	93.7%	2	2.1%	93	97.9%
Immune sera globulins	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Immunostimulants	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Immunosuppressants	2	2.1%	93	97.9%	1	1.1%	94	98.9%
Medicines for obstructive airway disease	9	9.5%	86	90.5%	8	8.4%	87	91.6%
Nasal preparations	7	7.4%	88	92.6%	7	7.4%	88	92.6%
Psychoanaleptics	13	13.7%	82	86.3%	8	8.4%	87	91.6%
Psycholeptics	3	3.2%	92	96.8%	4	4.2%	91	95.8%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Azithromycin	8	8.4%	87	91.6%	5	5.3%	90	94.7%
Baricitinib	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Chloroquine	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Corticosteroids inhaled	5	5.3%	90	94.7%	5	5.3%	90	94.7%
Corticosteroids other	7	7.4%	88	92.6%	11	11.6%	84	88.4%
Dexamethasone	1	1.1%	94	98.9%	6	6.3%	89	93.7%
Heparin	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Hydroxychloroquine	1	1.1%	94	98.9%	1	1.1%	94	98.9%

**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Interleukin 6 inhibitors	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Lopinavir Ritonavir	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Low molecular weight heparin	1	1.1%	94	98.9%	1	1.1%	94	98.9%
Methylprednisolone	1	1.1%	94	98.9%	1	1.1%	94	98.9%
Molnupiravir	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Monoclonal antibodies	0	0.0%	95	100.0%	0	0.0%	95	100.0%
NSAIDs other	5	5.3%	90	94.7%	0	0.0%	95	100.0%
Paxlovid	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Prednisolone	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Remdesivir	0	0.0%	95	100.0%	0	0.0%	95	100.0%
<i>Vaccinations</i>								
Influenza vaccination	4	4.2%	91	95.8%	5	5.3%	90	94.7%
Pertussis vaccination	0	0.0%	95	100.0%	0	0.0%	95	100.0%
Pneumococcal vaccination	0	0.0%	95	100.0%	0	0.0%	95	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the second trimester</b>								
Number of linked maternal-infant pairs	143		143		143		143	
<i>CONSIGN medications of interest</i>								
Analgesics	3	2.1%	140	97.9%	8	5.6%	135	94.4%
Antibacterials	15	10.5%	128	89.5%	22	15.4%	121	84.6%
Anticoagulants	3	2.1%	140	97.9%	9	6.3%	134	93.7%
Antihypertensives	10	7.0%	133	93.0%	14	9.8%	129	90.2%
Antiinflammatories	3	2.1%	140	97.9%	6	4.2%	137	95.8%
Antimycobacterials	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Antimycotics	1	0.7%	142	99.3%	2	1.4%	141	98.6%
Antivirals	1	0.7%	142	99.3%	2	1.4%	141	98.6%
Corticosteroids	2	1.4%	141	98.6%	9	6.3%	134	93.7%
Diabetes medications	4	2.8%	139	97.2%	4	2.8%	139	97.2%
Immune sera globulins	0	0.0%	143	100.0%	1	0.7%	142	99.3%
Immunostimulants	0	0.0%	143	100.0%	0	0.0%	143	100.0%

**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunosuppressants	1	0.7%	142	99.3%	1	0.7%	142	99.3%
Medicines for obstructive airway disease	6	4.2%	137	95.8%	15	10.5%	128	89.5%
Nasal preparations	3	2.1%	140	97.9%	6	4.2%	137	95.8%
Psychoanaleptics	12	8.4%	131	91.6%	15	10.5%	128	89.5%
Psycholeptics	3	2.1%	140	97.9%	6	4.2%	137	95.8%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Azithromycin	1	0.7%	142	99.3%	8	5.6%	135	94.4%
Baricitinib	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Chloroquine	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Corticosteroids inhaled	2	1.4%	141	98.6%	2	1.4%	141	98.6%
Corticosteroids other	0	0.0%	143	100.0%	8	5.6%	135	94.4%
Dexamethasone	0	0.0%	143	100.0%	3	2.1%	140	97.9%
Heparin	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Hydroxychloroquine	1	0.7%	142	99.3%	1	0.7%	142	99.3%
Interferon-beta	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Interleukin 6 inhibitors	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Lopinavir Ritonavir	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Low molecular weight heparin	1	0.7%	142	99.3%	4	2.8%	139	97.2%
Methylprednisolone	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Molnupiravir	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Monoclonal antibodies	0	0.0%	143	100.0%	0	0.0%	143	100.0%
NSAIDs other	3	2.1%	140	97.9%	6	4.2%	137	95.8%
Paxlovid	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Prednisolone	0	0.0%	143	100.0%	0	0.0%	143	100.0%
Remdesivir	0	0.0%	143	100.0%	0	0.0%	143	100.0%
<i>Vaccinations</i>								
Influenza vaccination	9	6.3%	134	93.7%	6	4.2%	137	95.8%
Pertussis vaccination	0	0.0%	143	100.0%	8	5.6%	135	94.4%
Pneumococcal vaccination	0	0.0%	143	100.0%	0	0.0%	143	100.0%

**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the third trimester</b>								
Number of linked maternal-infant pairs	261		261		261		261	
<i>CONSIGN medications of interest</i>								
Analgesics	7	2.7%	254	97.3%	79	30.3%	182	69.7%
Antibacterials	29	11.1%	232	88.9%	39	14.9%	222	85.1%
Anticoagulants	5	1.9%	256	98.1%	28	10.7%	233	89.3%
Antihypertensives	22	8.4%	239	91.6%	62	23.8%	199	76.2%
Antiinflammatories	1	0.4%	260	99.6%	85	32.6%	176	67.4%
Antimycobacterials	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Antimycotics	2	0.8%	259	99.2%	4	1.5%	257	98.5%
Antivirals	7	2.7%	254	97.3%	4	1.5%	257	98.5%
Corticosteroids	15	5.7%	246	94.3%	18	6.9%	243	93.1%
Diabetes medications	15	5.7%	246	94.3%	10	3.8%	251	96.2%
Immune sera globulins	14	5.4%	247	94.6%	5	1.9%	256	98.1%
Immunostimulants	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Immunosuppressants	2	0.8%	259	99.2%	2	0.8%	259	99.2%
Medicines for obstructive airway disease	8	3.1%	253	96.9%	17	6.5%	244	93.5%
Nasal preparations	4	1.5%	257	98.5%	9	3.4%	252	96.6%
Psychoanaleptics	11	4.2%	250	95.8%	21	8.0%	240	92.0%
Psycholeptics	5	1.9%	256	98.1%	14	5.4%	247	94.6%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	261	100.0%	2	0.8%	259	99.2%
Azithromycin	12	4.6%	249	95.4%	9	3.4%	252	96.6%
Baricitinib	0	0.0%	261	100.0%	2	0.8%	259	99.2%
Chloroquine	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Corticosteroids inhaled	1	0.4%	260	99.6%	4	1.5%	257	98.5%
Corticosteroids other	27	10.3%	234	89.7%	28	10.7%	233	89.3%
Dexamethasone	2	0.8%	259	99.2%	7	2.7%	254	97.3%
Heparin	0	0.0%	261	100.0%	1	0.4%	260	99.6%
Hydroxychloroquine	4	1.5%	257	98.5%	2	0.8%	259	99.2%

**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Interleukin 6 inhibitors	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Lopinavir Ritonavir	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Low molecular weight heparin	3	1.1%	258	98.9%	18	6.9%	243	93.1%
Methylprednisolone	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Molnupiravir	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Monoclonal antibodies	0	0.0%	261	100.0%	0	0.0%	261	100.0%
NSAIDs other	1	0.4%	260	99.6%	85	32.6%	176	67.4%
Paxlovid	0	0.0%	261	100.0%	1	0.4%	260	99.6%
Prednisolone	0	0.0%	261	100.0%	0	0.0%	261	100.0%
Remdesivir	0	0.0%	261	100.0%	0	0.0%	261	100.0%
<i>Vaccinations</i>								
Influenza vaccination	11	4.2%	250	95.8%	3	1.1%	258	98.9%
Pertussis vaccination	49	18.8%	212	81.2%	38	14.6%	223	85.4%
Pneumococcal vaccination	0	0.0%	261	100.0%	0	0.0%	261	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 any time during pregnancy</b>								
Number of linked maternal-infant pairs	497		497		497		497	
<i>CONSIGN medications of interest</i>								
Analgesics	13	2.6%	484	97.4%	93	18.7%	404	81.3%
Antibacterials	66	13.3%	431	86.7%	78	15.7%	419	84.3%
Anticoagulants	13	2.6%	484	97.4%	42	8.5%	455	91.5%
Antihypertensives	34	6.8%	463	93.2%	78	15.7%	419	84.3%
Antiinflammatories	8	1.6%	489	98.4%	92	18.5%	405	81.5%
Antimycobacterials	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Antimycotics	6	1.2%	491	98.8%	8	1.6%	489	98.4%
Antivirals	9	1.8%	488	98.2%	7	1.4%	490	98.6%
Corticosteroids	27	5.4%	470	94.6%	41	8.2%	456	91.8%
Diabetes medications	25	5.0%	472	95.0%	16	3.2%	481	96.8%
Immune sera globulins	14	2.8%	483	97.2%	6	1.2%	491	98.8%



**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunostimulants	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Immunosuppressants	4	0.8%	493	99.2%	4	0.8%	493	99.2%
Medicines for obstructive airway disease	22	4.4%	475	95.6%	38	7.6%	459	92.4%
Nasal preparations	13	2.6%	484	97.4%	20	4.0%	477	96.0%
Psychoanaleptics	36	7.2%	461	92.8%	43	8.7%	454	91.3%
Psycholeptics	11	2.2%	486	97.8%	24	4.8%	473	95.2%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	497	100.0%	2	0.4%	495	99.6%
Azithromycin	21	4.2%	476	95.8%	22	4.4%	475	95.6%
Baricitinib	0	0.0%	497	100.0%	2	0.4%	495	99.6%
Chloroquine	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Corticosteroids inhaled	7	1.4%	490	98.6%	10	2.0%	487	98.0%
Corticosteroids other	34	6.8%	463	93.2%	47	9.5%	450	90.5%
Dexamethasone	3	0.6%	494	99.4%	16	3.2%	481	96.8%
Heparin	0	0.0%	497	100.0%	1	0.2%	496	99.8%
Hydroxychloroquine	6	1.2%	491	98.8%	4	0.8%	493	99.2%
Interferon-beta	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Interleukin 6 inhibitors	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Lopinavir Ritonavir	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Low molecular weight heparin	5	1.0%	492	99.0%	22	4.4%	475	95.6%
Methylprednisolone	1	0.2%	496	99.8%	1	0.2%	496	99.8%
Molnupiravir	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Monoclonal antibodies	0	0.0%	497	100.0%	0	0.0%	497	100.0%
NSAIDs other	9	1.8%	488	98.2%	91	18.3%	406	81.7%
Paxlovid	0	0.0%	497	100.0%	1	0.2%	496	99.8%
Prednisolone	0	0.0%	497	100.0%	0	0.0%	497	100.0%
Remdesivir	0	0.0%	497	100.0%	0	0.0%	497	100.0%
<i>Vaccinations</i>								
Influenza vaccination	24	4.8%	473	95.2%	14	2.8%	483	97.2%
Pertussis vaccination	49	9.9%	448	90.1%	46	9.3%	451	90.7%

**Table 6a. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Low Birth Weight in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Low birth weight in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pneumococcal vaccination	0	0.0%	497	100.0%	0	0.0%	497	100.0%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the first trimester</b>								
Number of linked maternal-infant pairs	125		125		125		125	
<i>CONSIGN medications of interest</i>								
Analgesics	3	2.4%	122	97.6%	4	3.2%	121	96.8%
Antibacterials	15	12.0%	110	88.0%	15	12.0%	110	88.0%
Anticoagulants	2	1.6%	123	98.4%	4	3.2%	121	96.8%
Antihypertensives	4	3.2%	121	96.8%	6	4.8%	119	95.2%
Antiinflammatories	1	0.8%	124	99.2%	1	0.8%	124	99.2%
Antimycobacterials	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Antimycotics	3	2.4%	122	97.6%	1	0.8%	124	99.2%
Antivirals	3	2.4%	122	97.6%	3	2.4%	122	97.6%
Corticosteroids	10	8.0%	115	92.0%	12	9.6%	113	90.4%
Diabetes medications	4	3.2%	121	96.8%	3	2.4%	122	97.6%
Immune sera globulins	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Immunostimulants	1	0.8%	124	99.2%	1	0.8%	124	99.2%
Immunosuppressants	2	1.6%	123	98.4%	0	0.0%	125	100.0%
Medicines for obstructive airway disease	4	3.2%	121	96.8%	10	8.0%	115	92.0%
Nasal preparations	6	4.8%	119	95.2%	6	4.8%	119	95.2%
Psychoanaleptics	10	8.0%	115	92.0%	5	4.0%	120	96.0%
Psycholeptics	4	3.2%	121	96.8%	6	4.8%	119	95.2%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Azithromycin	8	6.4%	117	93.6%	3	2.4%	122	97.6%
Baricitinib	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Chloroquine	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Corticosteroids inhaled	4	3.2%	121	96.8%	4	3.2%	121	96.8%
Corticosteroids other	7	5.6%	118	94.4%	8	6.4%	117	93.6%
Dexamethasone	1	0.8%	124	99.2%	2	1.6%	123	98.4%
Heparin	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Hydroxychloroquine	2	1.6%	123	98.4%	1	0.8%	124	99.2%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Interleukin 6 inhibitors	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Lopinavir Ritonavir	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Low molecular weight heparin	0	0.0%	125	100.0%	2	1.6%	123	98.4%
Methylprednisolone	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Molnupiravir	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Monoclonal antibodies	0	0.0%	125	100.0%	0	0.0%	125	100.0%
NSAIDs other	1	0.8%	124	99.2%	1	0.8%	124	99.2%
Paxlovid	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Prednisolone	0	0.0%	125	100.0%	0	0.0%	125	100.0%
Remdesivir	0	0.0%	125	100.0%	0	0.0%	125	100.0%
<i>Vaccinations</i>								
Influenza vaccination	10	8.0%	115	92.0%	13	10.4%	112	89.6%
Pertussis vaccination	1	0.8%	124	99.2%	0	0.0%	125	100.0%
Pneumococcal vaccination	0	0.0%	125	100.0%	0	0.0%	125	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the second trimester</b>								
Number of linked maternal-infant pairs	178		178		178		178	
<i>CONSIGN medications of interest</i>								
Analgesics	8	4.5%	170	95.5%	10	5.6%	168	94.4%
Antibacterials	19	10.7%	159	89.3%	36	20.2%	142	79.8%
Anticoagulants	5	2.8%	173	97.2%	9	5.1%	169	94.9%
Antihypertensives	5	2.8%	173	97.2%	8	4.5%	170	95.5%
Antiinflammatories	3	1.7%	175	98.3%	1	0.6%	177	99.4%
Antimycobacterials	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Antimycotics	2	1.1%	176	98.9%	1	0.6%	177	99.4%
Antivirals	1	0.6%	177	99.4%	3	1.7%	175	98.3%
Corticosteroids	2	1.1%	176	98.9%	13	7.3%	165	92.7%
Diabetes medications	3	1.7%	175	98.3%	2	1.1%	176	98.9%
Immune sera globulins	0	0.0%	178	100.0%	2	1.1%	176	98.9%
Immunostimulants	0	0.0%	178	100.0%	0	0.0%	178	100.0%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunosuppressants	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Medicines for obstructive airway disease	3	1.7%	175	98.3%	10	5.6%	168	94.4%
Nasal preparations	2	1.1%	176	98.9%	9	5.1%	169	94.9%
Psychoanaleptics	8	4.5%	170	95.5%	11	6.2%	167	93.8%
Psycholeptics	6	3.4%	172	96.6%	7	3.9%	171	96.1%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Azithromycin	2	1.1%	176	98.9%	14	7.9%	164	92.1%
Baricitinib	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Chloroquine	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Corticosteroids inhaled	2	1.1%	176	98.9%	4	2.2%	174	97.8%
Corticosteroids other	1	0.6%	177	99.4%	9	5.1%	169	94.9%
Dexamethasone	0	0.0%	178	100.0%	4	2.2%	174	97.8%
Heparin	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Hydroxychloroquine	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Interferon-beta	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Interleukin 6 inhibitors	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Lopinavir Ritonavir	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Low molecular weight heparin	3	1.7%	175	98.3%	5	2.8%	173	97.2%
Methylprednisolone	1	0.6%	177	99.4%	0	0.0%	178	100.0%
Molnupiravir	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Monoclonal antibodies	0	0.0%	178	100.0%	0	0.0%	178	100.0%
NSAIDs other	1	0.6%	177	99.4%	2	1.1%	176	98.9%
Paxlovid	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Prednisolone	0	0.0%	178	100.0%	0	0.0%	178	100.0%
Remdesivir	0	0.0%	178	100.0%	0	0.0%	178	100.0%
<i>Vaccinations</i>								
Influenza vaccination	7	3.9%	171	96.1%	3	1.7%	175	98.3%
Pertussis vaccination	1	0.6%	177	99.4%	11	6.2%	167	93.8%
Pneumococcal vaccination	0	0.0%	178	100.0%	0	0.0%	178	100.0%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the third trimester</b>								
Number of linked maternal-infant pairs	344		344		344		344	
<i>CONSIGN medications of interest</i>								
Analgesics	12	3.5%	332	96.5%	65	18.9%	279	81.1%
Antibacterials	25	7.3%	319	92.7%	38	11.0%	306	89.0%
Anticoagulants	11	3.2%	333	96.8%	27	7.8%	317	92.2%
Antihypertensives	12	3.5%	332	96.5%	51	14.8%	293	85.2%
Antiinflammatories	0	0.0%	344	100.0%	89	25.9%	255	74.1%
Antimycobacterials	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Antimycotics	1	0.3%	343	99.7%	4	1.2%	340	98.8%
Antivirals	7	2.0%	337	98.0%	10	2.9%	334	97.1%
Corticosteroids	6	1.7%	338	98.3%	19	5.5%	325	94.5%
Diabetes medications	11	3.2%	333	96.8%	14	4.1%	330	95.9%
Immune sera globulins	5	1.5%	339	98.5%	9	2.6%	335	97.4%
Immunostimulants	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Immunosuppressants	1	0.3%	343	99.7%	1	0.3%	343	99.7%
Medicines for obstructive airway disease	6	1.7%	338	98.3%	13	3.8%	331	96.2%
Nasal preparations	5	1.5%	339	98.5%	16	4.7%	328	95.3%
Psychoanaleptics	15	4.4%	329	95.6%	19	5.5%	325	94.5%
Psycholeptics	5	1.5%	339	98.5%	12	3.5%	332	96.5%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	344	100.0%	2	0.6%	342	99.4%
Azithromycin	9	2.6%	335	97.4%	11	3.2%	333	96.8%
Baricitinib	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Chloroquine	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Corticosteroids inhaled	3	0.9%	341	99.1%	9	2.6%	335	97.4%
Corticosteroids other	9	2.6%	335	97.4%	23	6.7%	321	93.3%
Dexamethasone	1	0.3%	343	99.7%	4	1.2%	340	98.8%
Heparin	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Hydroxychloroquine	2	0.6%	342	99.4%	1	0.3%	343	99.7%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Interleukin 6 inhibitors	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Lopinavir Ritonavir	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Low molecular weight heparin	3	0.9%	341	99.1%	15	4.4%	329	95.6%
Methylprednisolone	0	0.0%	344	100.0%	1	0.3%	343	99.7%
Molnupiravir	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Monoclonal antibodies	0	0.0%	344	100.0%	0	0.0%	344	100.0%
NSAIDs other	0	0.0%	344	100.0%	91	26.5%	253	73.5%
Paxlovid	0	0.0%	344	100.0%	2	0.6%	342	99.4%
Prednisolone	0	0.0%	344	100.0%	0	0.0%	344	100.0%
Remdesivir	0	0.0%	344	100.0%	0	0.0%	344	100.0%
<i>Vaccinations</i>								
Influenza vaccination	13	3.8%	331	96.2%	6	1.7%	338	98.3%
Pertussis vaccination	64	18.6%	280	81.4%	55	16.0%	289	84.0%
Pneumococcal vaccination	0	0.0%	344	100.0%	0	0.0%	344	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 any time during pregnancy</b>								
Number of linked maternal-infant pairs	647		647		647		647	
<i>CONSIGN medications of interest</i>								
Analgesics	23	3.6%	624	96.4%	79	12.2%	568	87.8%
Antibacterials	59	9.1%	588	90.9%	89	13.8%	558	86.2%
Anticoagulants	18	2.8%	629	97.2%	40	6.2%	607	93.8%
Antihypertensives	21	3.2%	626	96.8%	65	10.0%	582	90.0%
Antiinflammatories	4	0.6%	643	99.4%	91	14.1%	556	85.9%
Antimycobacterials	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Antimycotics	6	0.9%	641	99.1%	6	0.9%	641	99.1%
Antivirals	11	1.7%	636	98.3%	16	2.5%	631	97.5%
Corticosteroids	18	2.8%	629	97.2%	44	6.8%	603	93.2%
Diabetes medications	18	2.8%	629	97.2%	19	2.9%	628	97.1%
Immune sera globulins	5	0.8%	642	99.2%	11	1.7%	636	98.3%

**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunostimulants	1	0.2%	646	99.8%	1	0.2%	646	99.8%
Immunosuppressants	3	0.5%	644	99.5%	1	0.2%	646	99.8%
Medicines for obstructive airway disease	13	2.0%	634	98.0%	33	5.1%	614	94.9%
Nasal preparations	13	2.0%	634	98.0%	31	4.8%	616	95.2%
Psychoanaleptics	33	5.1%	614	94.9%	35	5.4%	612	94.6%
Psycholeptics	15	2.3%	632	97.7%	25	3.9%	622	96.1%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	647	100.0%	2	0.3%	645	99.7%
Azithromycin	19	2.9%	628	97.1%	28	4.3%	619	95.7%
Baricitinib	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Chloroquine	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Corticosteroids inhaled	9	1.4%	638	98.6%	17	2.6%	630	97.4%
Corticosteroids other	17	2.6%	630	97.4%	40	6.2%	607	93.8%
Dexamethasone	2	0.3%	645	99.7%	10	1.5%	637	98.5%
Heparin	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Hydroxychloroquine	4	0.6%	643	99.4%	2	0.3%	645	99.7%
Interferon-beta	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Interleukin 6 inhibitors	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Lopinavir Ritonavir	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Low molecular weight heparin	6	0.9%	641	99.1%	22	3.4%	625	96.6%
Methylprednisolone	1	0.2%	646	99.8%	1	0.2%	646	99.8%
Molnupiravir	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Monoclonal antibodies	0	0.0%	647	100.0%	0	0.0%	647	100.0%
NSAIDs other	2	0.3%	645	99.7%	94	14.5%	553	85.5%
Paxlovid	0	0.0%	647	100.0%	2	0.3%	645	99.7%
Prednisolone	0	0.0%	647	100.0%	0	0.0%	647	100.0%
Remdesivir	0	0.0%	647	100.0%	0	0.0%	647	100.0%
<i>Vaccinations</i>								
Influenza vaccination	30	4.6%	617	95.4%	22	3.4%	625	96.6%
Pertussis vaccination	66	10.2%	581	89.8%	66	10.2%	581	89.8%



**Table 6b. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Small for Gestational Age in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Small for gestational age in the 7 days after live birth delivery, mother or infant claims	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pneumococcal vaccination	0	0.0%	647	100.0%	0	0.0%	647	100.0%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the first trimester</b>								
Number of linked maternal-infant pairs	6		6		6		6	
<i>CONSIGN medications of interest</i>								
Analgesics	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antibacterials	1	16.7%	5	83.3%	1	16.7%	5	83.3%
Anticoagulants	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antihypertensives	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antiinflammatories	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antimycobacterials	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antimycotics	1	16.7%	5	83.3%	0	0.0%	6	100.0%
Antivirals	1	16.7%	5	83.3%	0	0.0%	6	100.0%
Corticosteroids	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Diabetes medications	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Immune sera globulins	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Immunostimulants	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Immunosuppressants	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Medicines for obstructive airway disease	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Nasal preparations	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Psychoanaleptics	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Psycholeptics	0	0.0%	6	100.0%	0	0.0%	6	100.0%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Azithromycin	1	16.7%	5	83.3%	1	16.7%	5	83.3%
Baricitinib	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Chloroquine	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Corticosteroids inhaled	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Corticosteroids other	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Dexamethasone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Heparin	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Hydroxychloroquine	0	0.0%	6	100.0%	0	0.0%	6	100.0%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days after (and including) COVID-19 index date							
	Any use in the 30 days prior to COVID-19 index date							
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Interleukin 6 inhibitors	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Lopinavir Ritonavir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Low molecular weight heparin	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Methylprednisolone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Molnupiravir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Monoclonal antibodies	0	0.0%	6	100.0%	0	0.0%	6	100.0%
NSAIDs other	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Paxlovid	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Prednisolone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Remdesivir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
<i>Vaccinations</i>								
Influenza vaccination	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Pertussis vaccination	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Pneumococcal vaccination	0	0.0%	6	100.0%	0	0.0%	6	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the second trimester</b>								
Number of linked maternal-infant pairs	6		6		6		6	
<i>CONSIGN medications of interest</i>								
Analgesics	0	0.0%	6	100.0%	3	50.0%	3	50.0%
Antibacterials	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Anticoagulants	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Antihypertensives	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antiinflammatories	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Antimycobacterials	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antimycotics	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Antivirals	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Corticosteroids	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Diabetes medications	1	16.7%	5	83.3%	0	0.0%	6	100.0%
Immune sera globulins	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Immunostimulants	0	0.0%	6	100.0%	0	0.0%	6	100.0%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days after (and including) COVID-19 index date							
	Any use in the 30 days prior to COVID-19 index date							
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunosuppressants	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Medicines for obstructive airway disease	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Nasal preparations	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Psychoanaleptics	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Psycholeptics	0	0.0%	6	100.0%	1	16.7%	5	83.3%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Azithromycin	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Baricitinib	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Chloroquine	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Corticosteroids inhaled	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Corticosteroids other	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Dexamethasone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Heparin	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Hydroxychloroquine	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Interferon-beta	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Interleukin 6 inhibitors	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Lopinavir Ritonavir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Low molecular weight heparin	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Methylprednisolone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Molnupiravir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Monoclonal antibodies	0	0.0%	6	100.0%	0	0.0%	6	100.0%
NSAIDs other	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Paxlovid	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Prednisolone	0	0.0%	6	100.0%	0	0.0%	6	100.0%
Remdesivir	0	0.0%	6	100.0%	0	0.0%	6	100.0%
<i>Vaccinations</i>								
Influenza vaccination	1	16.7%	5	83.3%	0	0.0%	6	100.0%
Pertussis vaccination	0	0.0%	6	100.0%	1	16.7%	5	83.3%
Pneumococcal vaccination	0	0.0%	6	100.0%	0	0.0%	6	100.0%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the third trimester</b>								
Number of linked maternal-infant pairs	18		18		18		18	
<i>CONSIGN medications of interest</i>								
Analgesics	1	5.6%	17	94.4%	3	16.7%	15	83.3%
Antibacterials	0	0.0%	18	100.0%	4	22.2%	14	77.8%
Anticoagulants	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Antihypertensives	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Antiinflammatories	0	0.0%	18	100.0%	3	16.7%	15	83.3%
Antimycobacterials	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Antimycotics	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Antivirals	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Corticosteroids	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Diabetes medications	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Immune sera globulins	2	11.1%	16	88.9%	0	0.0%	18	100.0%
Immunostimulants	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Immunosuppressants	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Medicines for obstructive airway disease	0	0.0%	18	100.0%	2	11.1%	16	88.9%
Nasal preparations	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Psychoanaleptics	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Psycholeptics	0	0.0%	18	100.0%	0	0.0%	18	100.0%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Azithromycin	0	0.0%	18	100.0%	3	16.7%	15	83.3%
Baricitinib	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Chloroquine	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Corticosteroids inhaled	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Corticosteroids other	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Dexamethasone	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Heparin	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Hydroxychloroquine	1	5.6%	17	94.4%	1	5.6%	17	94.4%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days after (and including) COVID-19 index date							
	Any use in the 30 days prior to COVID-19 index date							
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Interferon-beta	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Interleukin 6 inhibitors	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Lopinavir Ritonavir	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Low molecular weight heparin	0	0.0%	18	100.0%	1	5.6%	17	94.4%
Methylprednisolone	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Molnupiravir	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Monoclonal antibodies	0	0.0%	18	100.0%	0	0.0%	18	100.0%
NSAIDs other	0	0.0%	18	100.0%	3	16.7%	15	83.3%
Paxlovid	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Prednisolone	0	0.0%	18	100.0%	0	0.0%	18	100.0%
Remdesivir	0	0.0%	18	100.0%	0	0.0%	18	100.0%
<i>Vaccinations</i>								
Influenza vaccination	0	0.0%	18	100.0%	2	11.1%	16	88.9%
Pertussis vaccination	2	11.1%	16	88.9%	3	16.7%	15	83.3%
Pneumococcal vaccination	0	0.0%	18	100.0%	0	0.0%	18	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 any time during pregnancy</b>								
Number of linked maternal-infant pairs	30		30		30		30	
<i>CONSIGN medications of interest</i>								
Analgesics	1	3.3%	29	96.7%	6	20.0%	24	80.0%
Antibacterials	1	3.3%	29	96.7%	6	20.0%	24	80.0%
Anticoagulants	0	0.0%	30	100.0%	2	6.7%	28	93.3%
Antihypertensives	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Antiinflammatories	0	0.0%	30	100.0%	4	13.3%	26	86.7%
Antimycobacterials	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Antimycotics	1	3.3%	29	96.7%	0	0.0%	30	100.0%
Antivirals	1	3.3%	29	96.7%	0	0.0%	30	100.0%
Corticosteroids	0	0.0%	30	100.0%	2	6.7%	28	93.3%
Diabetes medications	1	3.3%	29	96.7%	0	0.0%	30	100.0%
Immune sera globulins	2	6.7%	28	93.3%	0	0.0%	30	100.0%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immunostimulants	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Immunosuppressants	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Medicines for obstructive airway disease	0	0.0%	30	100.0%	3	10.0%	27	90.0%
Nasal preparations	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Psychoanaleptics	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Psycholeptics	0	0.0%	30	100.0%	1	3.3%	29	96.7%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Azithromycin	1	3.3%	29	96.7%	4	13.3%	26	86.7%
Baricitinib	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Chloroquine	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Corticosteroids inhaled	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Corticosteroids other	0	0.0%	30	100.0%	2	6.7%	28	93.3%
Dexamethasone	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Heparin	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Hydroxychloroquine	1	3.3%	29	96.7%	1	3.3%	29	96.7%
Interferon-beta	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Interleukin 6 inhibitors	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Lopinavir Ritonavir	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Low molecular weight heparin	0	0.0%	30	100.0%	1	3.3%	29	96.7%
Methylprednisolone	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Molnupiravir	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Monoclonal antibodies	0	0.0%	30	100.0%	0	0.0%	30	100.0%
NSAIDs other	0	0.0%	30	100.0%	4	13.3%	26	86.7%
Paxlovid	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Prednisolone	0	0.0%	30	100.0%	0	0.0%	30	100.0%
Remdesivir	0	0.0%	30	100.0%	0	0.0%	30	100.0%
<i>Vaccinations</i>								
Influenza vaccination	1	3.3%	29	96.7%	2	6.7%	28	93.3%
Pertussis vaccination	2	6.7%	28	93.3%	4	13.3%	26	86.7%

**Table 6c. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Microcephaly in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Microcephaly in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Pneumococcal vaccination	0	0.0%	30	100.0%	0	0.0%	30	100.0%



**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Pregnant patients with live birth delivery and COVID-19 in the first trimester</b>								
Number of linked maternal-infant pairs	472		472		472		472	
<i>CONSIGN medications of interest</i>								
Analgesics	14	3.0%	458	97.0%	14	3.0%	458	97.0%
Antibacterials	47	10.0%	425	90.0%	72	15.3%	400	84.7%
Anticoagulants	8	1.7%	464	98.3%	16	3.4%	456	96.6%
Antihypertensives	15	3.2%	457	96.8%	12	2.5%	460	97.5%
Antiinflammatories	6	1.3%	466	98.7%	4	0.8%	468	99.2%
Antimycobacterials	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Antimycotics	8	1.7%	464	98.3%	8	1.7%	464	98.3%
Antivirals	6	1.3%	466	98.7%	9	1.9%	463	98.1%
Corticosteroids	25	5.3%	447	94.7%	35	7.4%	437	92.6%
Diabetes medications	13	2.8%	459	97.2%	13	2.8%	459	97.2%
Immune sera globulins	4	0.8%	468	99.2%	3	0.6%	469	99.4%
Immunostimulants	1	0.2%	471	99.8%	2	0.4%	470	99.6%
Immunosuppressants	5	1.1%	467	98.9%	2	0.4%	470	99.6%
Medicines for obstructive airway disease	19	4.0%	453	96.0%	29	6.1%	443	93.9%
Nasal preparations	11	2.3%	461	97.7%	21	4.4%	451	95.6%
Psychoanaleptics	37	7.8%	435	92.2%	31	6.6%	441	93.4%
Psycholeptics	11	2.3%	461	97.7%	11	2.3%	461	97.7%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Azithromycin	17	3.6%	455	96.4%	28	5.9%	444	94.1%
Baricitinib	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Chloroquine	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Corticosteroids inhaled	8	1.7%	464	98.3%	8	1.7%	464	98.3%
Corticosteroids other	18	3.8%	454	96.2%	29	6.1%	443	93.9%
Dexamethasone	6	1.3%	466	98.7%	10	2.1%	462	97.9%
Heparin	0	0.0%	472	100.0%	1	0.2%	471	99.8%

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	5	1.1%	467	98.9%	3	0.6%	469	99.4%
Interferon-beta	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Interleukin 6 inhibitors	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Lopinavir Ritonavir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Low molecular weight heparin	2	0.4%	470	99.6%	6	1.3%	466	98.7%
Methylprednisolone	2	0.4%	470	99.6%	2	0.4%	470	99.6%
Molnupiravir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Monoclonal antibodies	0	0.0%	472	100.0%	0	0.0%	472	100.0%
NSAIDs other	3	0.6%	469	99.4%	2	0.4%	470	99.6%
Paxlovid	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Prednisolone	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Remdesivir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
<i>Vaccinations</i>								
Influenza vaccination	28	5.9%	444	94.1%	30	6.4%	442	93.6%
Pertussis vaccination	1	0.2%	471	99.8%	2	0.4%	470	99.6%
Pneumococcal vaccination	0	0.0%	472	100.0%	0	0.0%	472	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the second trimester</b>								
Number of linked maternal-infant pairs	674		674		674		674	
<i>CONSIGN medications of interest</i>								
Analgesics	21	3.1%	653	96.9%	37	5.5%	637	94.5%
Antibacterials	78	11.6%	596	88.4%	97	14.4%	577	85.6%
Anticoagulants	10	1.5%	664	98.5%	23	3.4%	651	96.6%
Antihypertensives	21	3.1%	653	96.9%	25	3.7%	649	96.3%
Antiinflammatories	4	0.6%	670	99.4%	9	1.3%	665	98.7%
Antimycobacterials	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Antimycotics	4	0.6%	670	99.4%	10	1.5%	664	98.5%
Antivirals	11	1.6%	663	98.4%	10	1.5%	664	98.5%
Corticosteroids	16	2.4%	658	97.6%	36	5.3%	638	94.7%
Diabetes medications	23	3.4%	651	96.6%	28	4.2%	646	95.8%

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	1	0.1%	673	99.9%	15	2.2%	659	97.8%
Immunostimulants	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Immunosuppressants	5	0.7%	669	99.3%	5	0.7%	669	99.3%
Medicines for obstructive airway disease	19	2.8%	655	97.2%	39	5.8%	635	94.2%
Nasal preparations	7	1.0%	667	99.0%	21	3.1%	653	96.9%
Psychoanaleptics	50	7.4%	624	92.6%	59	8.8%	615	91.2%
Psycholeptics	14	2.1%	660	97.9%	16	2.4%	658	97.6%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	1	0.1%	673	99.9%	1	0.1%	673	99.9%
Azithromycin	12	1.8%	662	98.2%	41	6.1%	633	93.9%
Baricitinib	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Chloroquine	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Corticosteroids inhaled	4	0.6%	670	99.4%	7	1.0%	667	99.0%
Corticosteroids other	12	1.8%	662	98.2%	32	4.7%	642	95.3%
Dexamethasone	1	0.1%	673	99.9%	12	1.8%	662	98.2%
Heparin	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Hydroxychloroquine	4	0.6%	670	99.4%	3	0.4%	671	99.6%
Interferon-beta	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Interleukin 6 inhibitors	0	0.0%	674	100.0%	1	0.1%	673	99.9%
Lopinavir Ritonavir	1	0.1%	673	99.9%	1	0.1%	673	99.9%
Low molecular weight heparin	5	0.7%	669	99.3%	10	1.5%	664	98.5%
Methylprednisolone	2	0.3%	672	99.7%	0	0.0%	674	100.0%
Molnupiravir	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Monoclonal antibodies	0	0.0%	674	100.0%	0	0.0%	674	100.0%
NSAIDs other	3	0.4%	671	99.6%	9	1.3%	665	98.7%
Paxlovid	0	0.0%	674	100.0%	2	0.3%	672	99.7%
Prednisolone	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Remdesivir	0	0.0%	674	100.0%	0	0.0%	674	100.0%
<i>Vaccinations</i>								

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	40	5.9%	634	94.1%	22	3.3%	652	96.7%
Pertussis vaccination	0	0.0%	674	100.0%	48	7.1%	626	92.9%
Pneumococcal vaccination	0	0.0%	674	100.0%	0	0.0%	674	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the third trimester</b>								
Number of linked maternal-infant pairs	1,287		1,287		1,287		1,287	
<i>CONSIGN medications of interest</i>								
Analgesics	37	2.9%	1,250	97.1%	256	19.9%	1,031	80.1%
Antibacterials	112	8.7%	1,175	91.3%	180	14.0%	1,107	86.0%
Anticoagulants	38	3.0%	1,249	97.0%	84	6.5%	1,203	93.5%
Antihypertensives	32	2.5%	1,255	97.5%	84	6.5%	1,203	93.5%
Antiinflammatories	5	0.4%	1,282	99.6%	311	24.2%	976	75.8%
Antimycobacterials	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Antimycotics	13	1.0%	1,274	99.0%	17	1.3%	1,270	98.7%
Antivirals	28	2.2%	1,259	97.8%	27	2.1%	1,260	97.9%
Corticosteroids	34	2.6%	1,253	97.4%	76	5.9%	1,211	94.1%
Diabetes medications	62	4.8%	1,225	95.2%	51	4.0%	1,236	96.0%
Immune sera globulins	21	1.6%	1,266	98.4%	25	1.9%	1,262	98.1%
Immunostimulants	1	0.1%	1,286	99.9%	1	0.1%	1,286	99.9%
Immunosuppressants	3	0.2%	1,284	99.8%	4	0.3%	1,283	99.7%
Medicines for obstructive airway disease	32	2.5%	1,255	97.5%	77	6.0%	1,210	94.0%
Nasal preparations	24	1.9%	1,263	98.1%	30	2.3%	1,257	97.7%
Psychoanaleptics	63	4.9%	1,224	95.1%	82	6.4%	1,205	93.6%
Psycholeptics	25	1.9%	1,262	98.1%	39	3.0%	1,248	97.0%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	1,287	100.0%	2	0.2%	1,285	99.8%
Azithromycin	24	1.9%	1,263	98.1%	58	4.5%	1,229	95.5%
Baricitinib	0	0.0%	1,287	100.0%	2	0.2%	1,285	99.8%
Chloroquine	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Corticosteroids inhaled	14	1.1%	1,273	98.9%	18	1.4%	1,269	98.6%

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Corticosteroids other	38	3.0%	1,249	97.0%	78	6.1%	1,209	93.9%
Dexamethasone	6	0.5%	1,281	99.5%	27	2.1%	1,260	97.9%
Heparin	7	0.5%	1,280	99.5%	4	0.3%	1,283	99.7%
Hydroxychloroquine	5	0.4%	1,282	99.6%	4	0.3%	1,283	99.7%
Interferon-beta	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Interleukin 6 inhibitors	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Lopinavir Ritonavir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Low molecular weight heparin	15	1.2%	1,272	98.8%	56	4.4%	1,231	95.6%
Methylprednisolone	1	0.1%	1,286	99.9%	5	0.4%	1,282	99.6%
Molnupiravir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Monoclonal antibodies	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
NSAIDs other	5	0.4%	1,282	99.6%	314	24.4%	973	75.6%
Paxlovid	5	0.4%	1,282	99.6%	7	0.5%	1,280	99.5%
Prednisolone	0	0.0%	1,287	100.0%	1	0.1%	1,286	99.9%
Remdesivir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
<i>Vaccinations</i>								
Influenza vaccination	59	4.6%	1,228	95.4%	34	2.6%	1,253	97.4%
Pertussis vaccination	238	18.5%	1,049	81.5%	169	13.1%	1,118	86.9%
Pneumococcal vaccination	1	0.1%	1,286	99.9%	0	0.0%	1,287	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 any time during pregnancy</b>								
Number of linked maternal-infant pairs	2,429		2,429		2,429		2,429	
<i>CONSIGN medications of interest</i>								
Analgesics	72	3.0%	2,357	97.0%	307	12.6%	2,122	87.4%
Antibacterials	236	9.7%	2,193	90.3%	349	14.4%	2,080	85.6%
Anticoagulants	56	2.3%	2,373	97.7%	123	5.1%	2,306	94.9%
Antihypertensives	68	2.8%	2,361	97.2%	121	5.0%	2,308	95.0%
Antiinflammatories	14	0.6%	2,415	99.4%	323	13.3%	2,106	86.7%
Antimycobacterials	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Antimycotics	25	1.0%	2,404	99.0%	35	1.4%	2,394	98.6%

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Antivirals	45	1.9%	2,384	98.1%	46	1.9%	2,383	98.1%
Corticosteroids	74	3.0%	2,355	97.0%	146	6.0%	2,283	94.0%
Diabetes medications	98	4.0%	2,331	96.0%	92	3.8%	2,337	96.2%
Immune sera globulins	26	1.1%	2,403	98.9%	42	1.7%	2,387	98.3%
Immunostimulants	2	0.1%	2,427	99.9%	3	0.1%	2,426	99.9%
Immunosuppressants	12	0.5%	2,417	99.5%	11	0.5%	2,418	99.5%
Medicines for obstructive airway disease	69	2.8%	2,360	97.2%	144	5.9%	2,285	94.1%
Nasal preparations	41	1.7%	2,388	98.3%	71	2.9%	2,358	97.1%
Psychoanaleptics	149	6.1%	2,280	93.9%	172	7.1%	2,257	92.9%
Psycholeptics	50	2.1%	2,379	97.9%	66	2.7%	2,363	97.3%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	1	0.0%	2,428	100.0%	3	0.1%	2,426	99.9%
Azithromycin	53	2.2%	2,376	97.8%	127	5.2%	2,302	94.8%
Baricitinib	0	0.0%	2,429	100.0%	2	0.1%	2,427	99.9%
Chloroquine	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Corticosteroids inhaled	25	1.0%	2,404	99.0%	32	1.3%	2,397	98.7%
Corticosteroids other	68	2.8%	2,361	97.2%	139	5.7%	2,290	94.3%
Dexamethasone	13	0.5%	2,416	99.5%	49	2.0%	2,380	98.0%
Heparin	7	0.3%	2,422	99.7%	5	0.2%	2,424	99.8%
Hydroxychloroquine	14	0.6%	2,415	99.4%	10	0.4%	2,419	99.6%
Interferon-beta	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Interleukin 6 inhibitors	0	0.0%	2,429	100.0%	1	0.0%	2,428	100.0%
Lopinavir Ritonavir	1	0.0%	2,428	100.0%	1	0.0%	2,428	100.0%
Low molecular weight heparin	22	0.9%	2,407	99.1%	72	3.0%	2,357	97.0%
Methylprednisolone	5	0.2%	2,424	99.8%	7	0.3%	2,422	99.7%
Molnupiravir	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Monoclonal antibodies	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
NSAIDs other	11	0.5%	2,418	99.5%	325	13.4%	2,104	86.6%
Paxlovid	5	0.2%	2,424	99.8%	9	0.4%	2,420	99.6%

**Table 6d. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (1 Diagnostic Occurrence) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation <sup>1</sup> (1 diagnostic occurrence) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Prednisolone	0	0.0%	2,429	100.0%	1	0.0%	2,428	100.0%
Remdesivir	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
<i>Vaccinations</i>								
Influenza vaccination	126	5.2%	2,303	94.8%	86	3.5%	2,343	96.5%
Pertussis vaccination	239	9.8%	2,190	90.2%	218	9.0%	2,211	91.0%
Pneumococcal vaccination	1	0.0%	2,428	100.0%	0	0.0%	2,429	100.0%

<sup>1</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
	Pregnant patients with live birth delivery and COVID-19 in the first trimester							
Number of linked maternal-infant pairs	472		472		472		472	
<i>CONSIGN medications of interest</i>								
Analgesics	14	3.0%	458	97.0%	14	3.0%	458	97.0%
Antibacterials	47	10.0%	425	90.0%	72	15.3%	400	84.7%
Anticoagulants	8	1.7%	464	98.3%	16	3.4%	456	96.6%
Antihypertensives	15	3.2%	457	96.8%	12	2.5%	460	97.5%
Antiinflammatories	6	1.3%	466	98.7%	4	0.8%	468	99.2%
Antimycobacterials	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Antimycotics	8	1.7%	464	98.3%	8	1.7%	464	98.3%
Antivirals	6	1.3%	466	98.7%	9	1.9%	463	98.1%
Corticosteroids	25	5.3%	447	94.7%	35	7.4%	437	92.6%
Diabetes medications	13	2.8%	459	97.2%	13	2.8%	459	97.2%
Immune sera globulins	4	0.8%	468	99.2%	3	0.6%	469	99.4%
Immunostimulants	1	0.2%	471	99.8%	2	0.4%	470	99.6%
Immunosuppressants	5	1.1%	467	98.9%	2	0.4%	470	99.6%
Medicines for obstructive airway disease	19	4.0%	453	96.0%	29	6.1%	443	93.9%
Nasal preparations	11	2.3%	461	97.7%	21	4.4%	451	95.6%
Psychoanaleptics	37	7.8%	435	92.2%	31	6.6%	441	93.4%
Psycholeptics	11	2.3%	461	97.7%	11	2.3%	461	97.7%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Azithromycin	17	3.6%	455	96.4%	28	5.9%	444	94.1%
Baricitinib	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Chloroquine	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Corticosteroids inhaled	8	1.7%	464	98.3%	8	1.7%	464	98.3%
Corticosteroids other	18	3.8%	454	96.2%	29	6.1%	443	93.9%
Dexamethasone	6	1.3%	466	98.7%	10	2.1%	462	97.9%
Heparin	0	0.0%	472	100.0%	1	0.2%	471	99.8%



**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Hydroxychloroquine	5	1.1%	467	98.9%	3	0.6%	469	99.4%
Interferon-beta	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Interleukin 6 inhibitors	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Lopinavir Ritonavir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Low molecular weight heparin	2	0.4%	470	99.6%	6	1.3%	466	98.7%
Methylprednisolone	2	0.4%	470	99.6%	2	0.4%	470	99.6%
Molnupiravir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Monoclonal antibodies	0	0.0%	472	100.0%	0	0.0%	472	100.0%
NSAIDs other	3	0.6%	469	99.4%	2	0.4%	470	99.6%
Paxlovid	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Prednisolone	0	0.0%	472	100.0%	0	0.0%	472	100.0%
Remdesivir	0	0.0%	472	100.0%	0	0.0%	472	100.0%
<i>Vaccinations</i>								
Influenza vaccination	28	5.9%	444	94.1%	30	6.4%	442	93.6%
Pertussis vaccination	1	0.2%	471	99.8%	2	0.4%	470	99.6%
Pneumococcal vaccination	0	0.0%	472	100.0%	0	0.0%	472	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the second trimester</b>								
Number of linked maternal-infant pairs	674		674		674		674	
<i>CONSIGN medications of interest</i>								
Analgesics	21	3.1%	653	96.9%	37	5.5%	637	94.5%
Antibacterials	78	11.6%	596	88.4%	97	14.4%	577	85.6%
Anticoagulants	10	1.5%	664	98.5%	23	3.4%	651	96.6%
Antihypertensives	21	3.1%	653	96.9%	25	3.7%	649	96.3%
Antiinflammatories	4	0.6%	670	99.4%	9	1.3%	665	98.7%
Antimycobacterials	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Antimycotics	4	0.6%	670	99.4%	10	1.5%	664	98.5%
Antivirals	11	1.6%	663	98.4%	10	1.5%	664	98.5%
Corticosteroids	16	2.4%	658	97.6%	36	5.3%	638	94.7%
Diabetes medications	23	3.4%	651	96.6%	28	4.2%	646	95.8%

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Immune sera globulins	1	0.1%	673	99.9%	15	2.2%	659	97.8%
Immunostimulants	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Immunosuppressants	5	0.7%	669	99.3%	5	0.7%	669	99.3%
Medicines for obstructive airway disease	19	2.8%	655	97.2%	39	5.8%	635	94.2%
Nasal preparations	7	1.0%	667	99.0%	21	3.1%	653	96.9%
Psychoanaleptics	50	7.4%	624	92.6%	59	8.8%	615	91.2%
Psycholeptics	14	2.1%	660	97.9%	16	2.4%	658	97.6%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	1	0.1%	673	99.9%	1	0.1%	673	99.9%
Azithromycin	12	1.8%	662	98.2%	41	6.1%	633	93.9%
Baricitinib	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Chloroquine	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Corticosteroids inhaled	4	0.6%	670	99.4%	7	1.0%	667	99.0%
Corticosteroids other	12	1.8%	662	98.2%	32	4.7%	642	95.3%
Dexamethasone	1	0.1%	673	99.9%	12	1.8%	662	98.2%
Heparin	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Hydroxychloroquine	4	0.6%	670	99.4%	3	0.4%	671	99.6%
Interferon-beta	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Interleukin 6 inhibitors	0	0.0%	674	100.0%	1	0.1%	673	99.9%
Lopinavir Ritonavir	1	0.1%	673	99.9%	1	0.1%	673	99.9%
Low molecular weight heparin	5	0.7%	669	99.3%	10	1.5%	664	98.5%
Methylprednisolone	2	0.3%	672	99.7%	0	0.0%	674	100.0%
Molnupiravir	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Monoclonal antibodies	0	0.0%	674	100.0%	0	0.0%	674	100.0%
NSAIDs other	3	0.4%	671	99.6%	9	1.3%	665	98.7%
Paxlovid	0	0.0%	674	100.0%	2	0.3%	672	99.7%
Prednisolone	0	0.0%	674	100.0%	0	0.0%	674	100.0%
Remdesivir	0	0.0%	674	100.0%	0	0.0%	674	100.0%
<i>Vaccinations</i>								

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Influenza vaccination	40	5.9%	634	94.1%	22	3.3%	652	96.7%
Pertussis vaccination	0	0.0%	674	100.0%	48	7.1%	626	92.9%
Pneumococcal vaccination	0	0.0%	674	100.0%	0	0.0%	674	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 in the third trimester</b>								
Number of linked maternal-infant pairs	1,287		1,287		1,287		1,287	
<i>CONSIGN medications of interest</i>								
Analgesics	37	2.9%	1,250	97.1%	256	19.9%	1,031	80.1%
Antibacterials	112	8.7%	1,175	91.3%	180	14.0%	1,107	86.0%
Anticoagulants	38	3.0%	1,249	97.0%	84	6.5%	1,203	93.5%
Antihypertensives	32	2.5%	1,255	97.5%	84	6.5%	1,203	93.5%
Antiinflammatories	5	0.4%	1,282	99.6%	311	24.2%	976	75.8%
Antimycobacterials	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Antimycotics	13	1.0%	1,274	99.0%	17	1.3%	1,270	98.7%
Antivirals	28	2.2%	1,259	97.8%	27	2.1%	1,260	97.9%
Corticosteroids	34	2.6%	1,253	97.4%	76	5.9%	1,211	94.1%
Diabetes medications	62	4.8%	1,225	95.2%	51	4.0%	1,236	96.0%
Immune sera globulins	21	1.6%	1,266	98.4%	25	1.9%	1,262	98.1%
Immunostimulants	1	0.1%	1,286	99.9%	1	0.1%	1,286	99.9%
Immunosuppressants	3	0.2%	1,284	99.8%	4	0.3%	1,283	99.7%
Medicines for obstructive airway disease	32	2.5%	1,255	97.5%	77	6.0%	1,210	94.0%
Nasal preparations	24	1.9%	1,263	98.1%	30	2.3%	1,257	97.7%
Psychoanaleptics	63	4.9%	1,224	95.1%	82	6.4%	1,205	93.6%
Psycholeptics	25	1.9%	1,262	98.1%	39	3.0%	1,248	97.0%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	0	0.0%	1,287	100.0%	2	0.2%	1,285	99.8%
Azithromycin	24	1.9%	1,263	98.1%	58	4.5%	1,229	95.5%
Baricitinib	0	0.0%	1,287	100.0%	2	0.2%	1,285	99.8%
Chloroquine	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Corticosteroids inhaled	14	1.1%	1,273	98.9%	18	1.4%	1,269	98.6%

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Corticosteroids other	38	3.0%	1,249	97.0%	78	6.1%	1,209	93.9%
Dexamethasone	6	0.5%	1,281	99.5%	27	2.1%	1,260	97.9%
Heparin	7	0.5%	1,280	99.5%	4	0.3%	1,283	99.7%
Hydroxychloroquine	5	0.4%	1,282	99.6%	4	0.3%	1,283	99.7%
Interferon-beta	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Interleukin 6 inhibitors	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Lopinavir Ritonavir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Low molecular weight heparin	15	1.2%	1,272	98.8%	56	4.4%	1,231	95.6%
Methylprednisolone	1	0.1%	1,286	99.9%	5	0.4%	1,282	99.6%
Molnupiravir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
Monoclonal antibodies	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
NSAIDs other	5	0.4%	1,282	99.6%	314	24.4%	973	75.6%
Paxlovid	5	0.4%	1,282	99.6%	7	0.5%	1,280	99.5%
Prednisolone	0	0.0%	1,287	100.0%	1	0.1%	1,286	99.9%
Remdesivir	0	0.0%	1,287	100.0%	0	0.0%	1,287	100.0%
<i>Vaccinations</i>								
Influenza vaccination	59	4.6%	1,228	95.4%	34	2.6%	1,253	97.4%
Pertussis vaccination	238	18.5%	1,049	81.5%	169	13.1%	1,118	86.9%
Pneumococcal vaccination	1	0.1%	1,286	99.9%	0	0.0%	1,287	100.0%
<b>Pregnant patients with live birth delivery and COVID-19 any time during pregnancy</b>								
Number of linked maternal-infant pairs	2,429		2,429		2,429		2,429	
<i>CONSIGN medications of interest</i>								
Analgesics	72	3.0%	2,357	97.0%	307	12.6%	2,122	87.4%
Antibacterials	236	9.7%	2,193	90.3%	349	14.4%	2,080	85.6%
Anticoagulants	56	2.3%	2,373	97.7%	123	5.1%	2,306	94.9%
Antihypertensives	68	2.8%	2,361	97.2%	121	5.0%	2,308	95.0%
Antiinflammatories	14	0.6%	2,415	99.4%	323	13.3%	2,106	86.7%
Antimycobacterials	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Antimycotics	25	1.0%	2,404	99.0%	35	1.4%	2,394	98.6%

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation1 (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Antivirals	45	1.9%	2,384	98.1%	46	1.9%	2,383	98.1%
Corticosteroids	74	3.0%	2,355	97.0%	146	6.0%	2,283	94.0%
Diabetes medications	98	4.0%	2,331	96.0%	92	3.8%	2,337	96.2%
Immune sera globulins	26	1.1%	2,403	98.9%	42	1.7%	2,387	98.3%
Immunostimulants	2	0.1%	2,427	99.9%	3	0.1%	2,426	99.9%
Immunosuppressants	12	0.5%	2,417	99.5%	11	0.5%	2,418	99.5%
Medicines for obstructive airway disease	69	2.8%	2,360	97.2%	144	5.9%	2,285	94.1%
Nasal preparations	41	1.7%	2,388	98.3%	71	2.9%	2,358	97.1%
Psychoanaleptics	149	6.1%	2,280	93.9%	172	7.1%	2,257	92.9%
Psycholeptics	50	2.1%	2,379	97.9%	66	2.7%	2,363	97.3%
<i>Potential COVID-19 medications</i>								
ACEI or ARBs	1	0.0%	2,428	100.0%	3	0.1%	2,426	99.9%
Azithromycin	53	2.2%	2,376	97.8%	127	5.2%	2,302	94.8%
Baricitinib	0	0.0%	2,429	100.0%	2	0.1%	2,427	99.9%
Chloroquine	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Corticosteroids inhaled	25	1.0%	2,404	99.0%	32	1.3%	2,397	98.7%
Corticosteroids other	68	2.8%	2,361	97.2%	139	5.7%	2,290	94.3%
Dexamethasone	13	0.5%	2,416	99.5%	49	2.0%	2,380	98.0%
Heparin	7	0.3%	2,422	99.7%	5	0.2%	2,424	99.8%
Hydroxychloroquine	14	0.6%	2,415	99.4%	10	0.4%	2,419	99.6%
Interferon-beta	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Interleukin 6 inhibitors	0	0.0%	2,429	100.0%	1	0.0%	2,428	100.0%
Lopinavir Ritonavir	1	0.0%	2,428	100.0%	1	0.0%	2,428	100.0%
Low molecular weight heparin	22	0.9%	2,407	99.1%	72	3.0%	2,357	97.0%
Methylprednisolone	5	0.2%	2,424	99.8%	7	0.3%	2,422	99.7%
Molnupiravir	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
Monoclonal antibodies	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
NSAIDs other	11	0.5%	2,418	99.5%	325	13.4%	2,104	86.6%
Paxlovid	5	0.2%	2,424	99.8%	9	0.4%	2,420	99.6%

**Table 6e. Use of Medications in the 30 Days Before and After COVID-19 Among Pregnant Patients With COVID-19 per Trimester Among Infants With Major Congenital Malformation (2 Diagnostic Occurrences) in the Sentinel Distributed Database (SDD) From January 1, 2020 to December 31, 2022 (PS-Adjusted) Fixed Ratio 1:1; Caliper= 0.05**

Neonatal health outcome of interest (HOI): Major congenital malformation <sup>1</sup> (2 diagnostic occurrences) in the 90 days after live birth delivery, infant claims only	Any use in the 30 days prior to COVID-19 index date				Any use in the 30 days after (and including) COVID-19 index date			
	Exposed to medication of interest		No evidence of exposure to medication of interest		Exposed to medication of interest		No evidence of exposure to medication of interest	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Prednisolone	0	0.0%	2,429	100.0%	1	0.0%	2,428	100.0%
Remdesivir	0	0.0%	2,429	100.0%	0	0.0%	2,429	100.0%
<i>Vaccinations</i>								
Influenza vaccination	126	5.2%	2,303	94.8%	86	3.5%	2,343	96.5%
Pertussis vaccination	239	9.8%	2,190	90.2%	218	9.0%	2,211	91.0%
Pneumococcal vaccination	1	0.0%	2,428	100.0%	0	0.0%	2,429	100.0%

<sup>1</sup>Defined by the CDC's Surveillance for Emerging Threats to Mothers and Babies Network (SET-NET).

**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (June 30, 2023)**

Masked ID	Data Partner Start Date	Query Period End Date <sup>1</sup>
DP04	01/01/2008	08/31/2022
DP02	01/01/2006	10/31/2022
DP03	07/01/2017	11/30/2022
DP01	01/01/2008	12/31/2022

<sup>1</sup>Query period end dates were selected for each Data Partner (DP) based on maximum date data completeness within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month, particularly for inpatient records. Data completeness varies by data source and claims type (i.e. care setting); we expect a lag in inpatient claims of  $\geq 60$  days for the four participating national health plans.

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

Code	Description	Code Category	Code Type
<b>Live birth delivery</b>			
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
10D00Z0	Extraction of Products of Conception, Classical, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low Cervical, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial 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
O1002	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1012	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1042	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1092	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
O114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1204	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
O1214	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1224	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1404	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1414	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O1494	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O164	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O252	Malnutrition in childbirth	Diagnosis	ICD-10-CM



**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O2662	Liver and biliary tract disorders in childbirth	Diagnosis	ICD-10-CM
O2672	Subluxation of symphysis (pubis) in childbirth	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	Diagnosis	ICD-10-CM
O6012X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6013X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6014X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6014X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6022X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6022X1	Term delivery with preterm labor, second trimester, fetus 1	Diagnosis	ICD-10-CM
O6022X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O6022X3	Term delivery with preterm labor, second trimester, fetus 3	Diagnosis	ICD-10-CM
O6022X4	Term delivery with preterm labor, second trimester, fetus 4	Diagnosis	ICD-10-CM
O6022X5	Term delivery with preterm labor, second trimester, fetus 5	Diagnosis	ICD-10-CM
O6022X9	Term delivery with preterm labor, second trimester, other fetus	Diagnosis	ICD-10-CM
O6023X0	Term delivery with preterm labor, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6023X1	Term delivery with preterm labor, third trimester, fetus 1	Diagnosis	ICD-10-CM
O6023X2	Term delivery with preterm labor, third trimester, fetus 2	Diagnosis	ICD-10-CM
O6023X3	Term delivery with preterm labor, third trimester, fetus 3	Diagnosis	ICD-10-CM
O6023X4	Term delivery with preterm labor, third trimester, fetus 4	Diagnosis	ICD-10-CM
O6023X5	Term delivery with preterm labor, third trimester, fetus 5	Diagnosis	ICD-10-CM
O6023X9	Term delivery with preterm labor, third trimester, other fetus	Diagnosis	ICD-10-CM
O632	Delayed delivery of second twin, triplet, etc	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	Diagnosis	ICD-10-CM
O678	Other intrapartum hemorrhage	Diagnosis	ICD-10-CM
O679	Intrapartum hemorrhage, unspecified	Diagnosis	ICD-10-CM
O68	Labor and delivery complicated by abnormality of fetal acid-base balance	Diagnosis	ICD-10-CM
O690XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O690XX1	Labor and delivery complicated by prolapse of cord, fetus 1	Diagnosis	ICD-10-CM
O690XX2	Labor and delivery complicated by prolapse of cord, fetus 2	Diagnosis	ICD-10-CM
O690XX3	Labor and delivery complicated by prolapse of cord, fetus 3	Diagnosis	ICD-10-CM
O690XX4	Labor and delivery complicated by prolapse of cord, fetus 4	Diagnosis	ICD-10-CM

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O690XX5	Labor and delivery complicated by prolapse of cord, fetus 5	Diagnosis	ICD-10-CM
O690XX9	Labor and delivery complicated by prolapse of cord, other fetus	Diagnosis	ICD-10-CM
O691XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O691XX1	Labor and delivery complicated by cord around neck, with compression, fetus 1	Diagnosis	ICD-10-CM
O691XX2	Labor and delivery complicated by cord around neck, with compression, fetus 2	Diagnosis	ICD-10-CM
O691XX3	Labor and delivery complicated by cord around neck, with compression, fetus 3	Diagnosis	ICD-10-CM
O691XX4	Labor and delivery complicated by cord around neck, with compression, fetus 4	Diagnosis	ICD-10-CM
O691XX5	Labor and delivery complicated by cord around neck, with compression, fetus 5	Diagnosis	ICD-10-CM
O691XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	Diagnosis	ICD-10-CM
O692XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O692XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O692XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O692XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O692XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O692XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O692XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	Diagnosis	ICD-10-CM
O693XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O693XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O693XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O693XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O693XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O693XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O693XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O694XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	Diagnosis	ICD-10-CM
O694XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O694XX2	Labor and delivery complicated by vasa previa, fetus 2	Diagnosis	ICD-10-CM
O694XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O694XX4	Labor and delivery complicated by vasa previa, fetus 4	Diagnosis	ICD-10-CM
O694XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O694XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O695XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O695XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O695XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O695XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	Diagnosis	ICD-10-CM
O695XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	Diagnosis	ICD-10-CM
O695XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM
O695XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O6981X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6981X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O6981X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O6981X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O6981X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O6981X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM
O6981X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O6982X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6982X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O6982X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O6982X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O6982X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O6982X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O6982X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O6989X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	Diagnosis	ICD-10-CM
O6989X1	Labor and delivery complicated by other cord complications, fetus 1	Diagnosis	ICD-10-CM
O6989X2	Labor and delivery complicated by other cord complications, fetus 2	Diagnosis	ICD-10-CM
O6989X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O6989X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O6989X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O6989X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O699XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O699XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O699XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM
O699XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O699XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O699XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM
O699XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O700	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O701	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O7020	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O7021	Third degree perineal laceration during delivery, IIIa	Diagnosis	ICD-10-CM
O7022	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O7023	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O703	Fourth degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O704	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O709	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O740	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O741	Other pulmonary complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O742	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O743	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O744	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O745	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O746	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O747	Failed or difficult intubation for anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O748	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O749	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM
O750	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

Code	Description	Code	
		Category	Code Type
O751	Shock during or following labor and delivery	Diagnosis	ICD-10-CM
O755	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM
O7581	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
O7582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section	Diagnosis	ICD-10-CM
O7589	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
O759	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
O76	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
O770	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
O778	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
O779	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
O80	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O8802	Air embolism in childbirth	Diagnosis	ICD-10-CM
O8812	Amniotic fluid embolism in childbirth	Diagnosis	ICD-10-CM
O8822	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
O8832	Pyemic and septic embolism in childbirth	Diagnosis	ICD-10-CM
O8882	Other embolism in childbirth	Diagnosis	ICD-10-CM
O9802	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O9812	Syphilis complicating childbirth	Diagnosis	ICD-10-CM
O9822	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM
O9832	Other infections with a predominantly sexual mode of transmission complicating childbirth	Diagnosis	ICD-10-CM
O9842	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O9852	Other viral diseases complicating childbirth	Diagnosis	ICD-10-CM
O9862	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O9872	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O9882	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O9892	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
O9902	Anemia complicating childbirth	Diagnosis	ICD-10-CM
O9912	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
O99214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
O99314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
O99324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
O99354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
O9942	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O9952	Diseases of the respiratory system complicating childbirth	Diagnosis	ICD-10-CM
O9962	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM
O9972	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
O99814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM
O99824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A22	Injury, poisoning and certain other consequences of external causes complicating childbirth	Diagnosis	ICD-10-CM

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O9A32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P030	Newborn affected by breech delivery and extraction	Diagnosis	ICD-10-CM
P032	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P033	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P034	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P035	Newborn affected by precipitate delivery	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P0821	Post-term newborn	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
Z370	Single live birth	Diagnosis	ICD-10-CM
Z372	Twins, both liveborn	Diagnosis	ICD-10-CM
Z373	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z3750	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z3751	Triples, all liveborn	Diagnosis	ICD-10-CM
Z3752	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z3753	Quintuplets, all liveborn	Diagnosis	ICD-10-CM
Z3754	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z3759	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triples, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM

**Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Live Birth Delivery**

Code	Description	Code	
		Category	Code Type
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z379	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z3800	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3801	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z381	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z382	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3830	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3831	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z384	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z385	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3861	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3862	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3863	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3864	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3865	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3866	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3868	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3869	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z387	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z388	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
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 C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code Category	Code Type
<b>Live birth delivery</b>			
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
10D00Z0	Extraction of Products of Conception, Classical, Open Approach	Procedure	ICD-10-PCS
10D00Z1	Extraction of Products of Conception, Low Cervical, Open Approach	Procedure	ICD-10-PCS
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	Procedure	ICD-10-PCS
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial 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
O1002	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1012	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1042	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1092	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
O114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1204	Gestational edema, complicating childbirth	Diagnosis	ICD-10-CM
O1214	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1224	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1404	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1414	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O1494	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O164	Unspecified maternal hypertension, complicating childbirth	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O252	Malnutrition in childbirth	Diagnosis	ICD-10-CM
O2662	Liver and biliary tract disorders in childbirth	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
O2672	Subluxation of symphysis (pubis) in childbirth	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	Diagnosis	ICD-10-CM
O6012X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6013X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6014X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	Diagnosis	ICD-10-CM
O6014X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	Diagnosis	ICD-10-CM
O6022X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6022X1	Term delivery with preterm labor, second trimester, fetus 1	Diagnosis	ICD-10-CM
O6022X2	Term delivery with preterm labor, second trimester, fetus 2	Diagnosis	ICD-10-CM
O6022X3	Term delivery with preterm labor, second trimester, fetus 3	Diagnosis	ICD-10-CM
O6022X4	Term delivery with preterm labor, second trimester, fetus 4	Diagnosis	ICD-10-CM
O6022X5	Term delivery with preterm labor, second trimester, fetus 5	Diagnosis	ICD-10-CM
O6022X9	Term delivery with preterm labor, second trimester, other fetus	Diagnosis	ICD-10-CM
O6023X0	Term delivery with preterm labor, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O6023X1	Term delivery with preterm labor, third trimester, fetus 1	Diagnosis	ICD-10-CM
O6023X2	Term delivery with preterm labor, third trimester, fetus 2	Diagnosis	ICD-10-CM
O6023X3	Term delivery with preterm labor, third trimester, fetus 3	Diagnosis	ICD-10-CM
O6023X4	Term delivery with preterm labor, third trimester, fetus 4	Diagnosis	ICD-10-CM
O6023X5	Term delivery with preterm labor, third trimester, fetus 5	Diagnosis	ICD-10-CM
O6023X9	Term delivery with preterm labor, third trimester, other fetus	Diagnosis	ICD-10-CM
O632	Delayed delivery of second twin, triplet, etc	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	Diagnosis	ICD-10-CM
O678	Other intrapartum hemorrhage	Diagnosis	ICD-10-CM
O679	Intrapartum hemorrhage, unspecified	Diagnosis	ICD-10-CM
O68	Labor and delivery complicated by abnormality of fetal acid-base balance	Diagnosis	ICD-10-CM
O690XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O690XX1	Labor and delivery complicated by prolapse of cord, fetus 1	Diagnosis	ICD-10-CM
O690XX2	Labor and delivery complicated by prolapse of cord, fetus 2	Diagnosis	ICD-10-CM
O690XX3	Labor and delivery complicated by prolapse of cord, fetus 3	Diagnosis	ICD-10-CM
O690XX4	Labor and delivery complicated by prolapse of cord, fetus 4	Diagnosis	ICD-10-CM
O690XX5	Labor and delivery complicated by prolapse of cord, fetus 5	Diagnosis	ICD-10-CM



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Code	Description	Code	
		Category	Code Type
O690XX9	Labor and delivery complicated by prolapse of cord, other fetus	Diagnosis	ICD-10-CM
O691XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O691XX1	Labor and delivery complicated by cord around neck, with compression, fetus 1	Diagnosis	ICD-10-CM
O691XX2	Labor and delivery complicated by cord around neck, with compression, fetus 2	Diagnosis	ICD-10-CM
O691XX3	Labor and delivery complicated by cord around neck, with compression, fetus 3	Diagnosis	ICD-10-CM
O691XX4	Labor and delivery complicated by cord around neck, with compression, fetus 4	Diagnosis	ICD-10-CM
O691XX5	Labor and delivery complicated by cord around neck, with compression, fetus 5	Diagnosis	ICD-10-CM
O691XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	Diagnosis	ICD-10-CM
O692XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O692XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	Diagnosis	ICD-10-CM
O692XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	Diagnosis	ICD-10-CM
O692XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	Diagnosis	ICD-10-CM
O692XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	Diagnosis	ICD-10-CM
O692XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	Diagnosis	ICD-10-CM
O692XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	Diagnosis	ICD-10-CM
O693XX0	Labor and delivery complicated by short cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O693XX1	Labor and delivery complicated by short cord, fetus 1	Diagnosis	ICD-10-CM
O693XX2	Labor and delivery complicated by short cord, fetus 2	Diagnosis	ICD-10-CM
O693XX3	Labor and delivery complicated by short cord, fetus 3	Diagnosis	ICD-10-CM
O693XX4	Labor and delivery complicated by short cord, fetus 4	Diagnosis	ICD-10-CM
O693XX5	Labor and delivery complicated by short cord, fetus 5	Diagnosis	ICD-10-CM
O693XX9	Labor and delivery complicated by short cord, other fetus	Diagnosis	ICD-10-CM
O694XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	Diagnosis	ICD-10-CM
O694XX1	Labor and delivery complicated by vasa previa, fetus 1	Diagnosis	ICD-10-CM
O694XX2	Labor and delivery complicated by vasa previa, fetus 2	Diagnosis	ICD-10-CM
O694XX3	Labor and delivery complicated by vasa previa, fetus 3	Diagnosis	ICD-10-CM
O694XX4	Labor and delivery complicated by vasa previa, fetus 4	Diagnosis	ICD-10-CM
O694XX5	Labor and delivery complicated by vasa previa, fetus 5	Diagnosis	ICD-10-CM
O694XX9	Labor and delivery complicated by vasa previa, other fetus	Diagnosis	ICD-10-CM
O695XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	Diagnosis	ICD-10-CM
O695XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	Diagnosis	ICD-10-CM
O695XX2	Labor and delivery complicated by vascular lesion of cord, fetus 2	Diagnosis	ICD-10-CM
O695XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	Diagnosis	ICD-10-CM
O695XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	Diagnosis	ICD-10-CM
O695XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	Diagnosis	ICD-10-CM
O695XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	Diagnosis	ICD-10-CM
O6981X0	Labor and delivery complicated by cord around neck, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM
O6981X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	Diagnosis	ICD-10-CM
O6981X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	Diagnosis	ICD-10-CM
O6981X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	Diagnosis	ICD-10-CM
O6981X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	Diagnosis	ICD-10-CM
O6981X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	Diagnosis	ICD-10-CM
O6981X9	Labor and delivery complicated by cord around neck, without compression, other fetus	Diagnosis	ICD-10-CM
O6982X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O6982X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	Diagnosis	ICD-10-CM
O6982X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	Diagnosis	ICD-10-CM
O6982X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	Diagnosis	ICD-10-CM
O6982X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	Diagnosis	ICD-10-CM
O6982X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	Diagnosis	ICD-10-CM
O6982X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	Diagnosis	ICD-10-CM
O6989X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	Diagnosis	ICD-10-CM
O6989X1	Labor and delivery complicated by other cord complications, fetus 1	Diagnosis	ICD-10-CM
O6989X2	Labor and delivery complicated by other cord complications, fetus 2	Diagnosis	ICD-10-CM
O6989X3	Labor and delivery complicated by other cord complications, fetus 3	Diagnosis	ICD-10-CM
O6989X4	Labor and delivery complicated by other cord complications, fetus 4	Diagnosis	ICD-10-CM
O6989X5	Labor and delivery complicated by other cord complications, fetus 5	Diagnosis	ICD-10-CM
O6989X9	Labor and delivery complicated by other cord complications, other fetus	Diagnosis	ICD-10-CM
O699XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified	Diagnosis	ICD-10-CM
O699XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	Diagnosis	ICD-10-CM
O699XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	Diagnosis	ICD-10-CM
O699XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	Diagnosis	ICD-10-CM
O699XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	Diagnosis	ICD-10-CM
O699XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	Diagnosis	ICD-10-CM
O699XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	Diagnosis	ICD-10-CM
O700	First degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O701	Second degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O7020	Third degree perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O7021	Third degree perineal laceration during delivery, IIIa	Diagnosis	ICD-10-CM
O7022	Third degree perineal laceration during delivery, IIIb	Diagnosis	ICD-10-CM
O7023	Third degree perineal laceration during delivery, IIIc	Diagnosis	ICD-10-CM
O703	Fourth degree perineal laceration during delivery	Diagnosis	ICD-10-CM
O704	Anal sphincter tear complicating delivery, not associated with third degree laceration	Diagnosis	ICD-10-CM
O709	Perineal laceration during delivery, unspecified	Diagnosis	ICD-10-CM
O740	Aspiration pneumonitis due to anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O741	Other pulmonary complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O742	Cardiac complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O743	Central nervous system complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O744	Toxic reaction to local anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O745	Spinal and epidural anesthesia-induced headache during labor and delivery	Diagnosis	ICD-10-CM
O746	Other complications of spinal and epidural anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O747	Failed or difficult intubation for anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O748	Other complications of anesthesia during labor and delivery	Diagnosis	ICD-10-CM
O749	Complication of anesthesia during labor and delivery, unspecified	Diagnosis	ICD-10-CM
O750	Maternal distress during labor and delivery	Diagnosis	ICD-10-CM
O751	Shock during or following labor and delivery	Diagnosis	ICD-10-CM
O755	Delayed delivery after artificial rupture of membranes	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
O7581	Maternal exhaustion complicating labor and delivery	Diagnosis	ICD-10-CM
O7582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section	Diagnosis	ICD-10-CM
O7589	Other specified complications of labor and delivery	Diagnosis	ICD-10-CM
O759	Complication of labor and delivery, unspecified	Diagnosis	ICD-10-CM
O76	Abnormality in fetal heart rate and rhythm complicating labor and delivery	Diagnosis	ICD-10-CM
O770	Labor and delivery complicated by meconium in amniotic fluid	Diagnosis	ICD-10-CM
O778	Labor and delivery complicated by other evidence of fetal stress	Diagnosis	ICD-10-CM
O779	Labor and delivery complicated by fetal stress, unspecified	Diagnosis	ICD-10-CM
O80	Encounter for full-term uncomplicated delivery	Diagnosis	ICD-10-CM
O82	Encounter for cesarean delivery without indication	Diagnosis	ICD-10-CM
O8802	Air embolism in childbirth	Diagnosis	ICD-10-CM
O8812	Amniotic fluid embolism in childbirth	Diagnosis	ICD-10-CM
O8822	Thromboembolism in childbirth	Diagnosis	ICD-10-CM
O8832	Pyemic and septic embolism in childbirth	Diagnosis	ICD-10-CM
O8882	Other embolism in childbirth	Diagnosis	ICD-10-CM
O9802	Tuberculosis complicating childbirth	Diagnosis	ICD-10-CM
O9812	Syphilis complicating childbirth	Diagnosis	ICD-10-CM
O9822	Gonorrhea complicating childbirth	Diagnosis	ICD-10-CM
O9832	Other infections with a predominantly sexual mode of transmission complicating childbirth	Diagnosis	ICD-10-CM
O9842	Viral hepatitis complicating childbirth	Diagnosis	ICD-10-CM
O9852	Other viral diseases complicating childbirth	Diagnosis	ICD-10-CM
O9862	Protozoal diseases complicating childbirth	Diagnosis	ICD-10-CM
O9872	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O9882	Other maternal infectious and parasitic diseases complicating childbirth	Diagnosis	ICD-10-CM
O9892	Unspecified maternal infectious and parasitic disease complicating childbirth	Diagnosis	ICD-10-CM
O9902	Anemia complicating childbirth	Diagnosis	ICD-10-CM
O9912	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth	Diagnosis	ICD-10-CM
O99214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99284	Endocrine, nutritional and metabolic diseases complicating childbirth	Diagnosis	ICD-10-CM
O99314	Alcohol use complicating childbirth	Diagnosis	ICD-10-CM
O99324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99344	Other mental disorders complicating childbirth	Diagnosis	ICD-10-CM
O99354	Diseases of the nervous system complicating childbirth	Diagnosis	ICD-10-CM
O9942	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O9952	Diseases of the respiratory system complicating childbirth	Diagnosis	ICD-10-CM
O9962	Diseases of the digestive system complicating childbirth	Diagnosis	ICD-10-CM
O9972	Diseases of the skin and subcutaneous tissue complicating childbirth	Diagnosis	ICD-10-CM
O99814	Abnormal glucose complicating childbirth	Diagnosis	ICD-10-CM
O99824	Streptococcus B carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99834	Other infection carrier state complicating childbirth	Diagnosis	ICD-10-CM
O99844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O9A12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A22	Injury, poisoning and certain other consequences of external causes complicating childbirth	Diagnosis	ICD-10-CM
O9A32	Physical abuse complicating childbirth	Diagnosis	ICD-10-CM
O9A42	Sexual abuse complicating childbirth	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
O9A52	Psychological abuse complicating childbirth	Diagnosis	ICD-10-CM
P030	Newborn affected by breech delivery and extraction	Diagnosis	ICD-10-CM
P032	Newborn affected by forceps delivery	Diagnosis	ICD-10-CM
P033	Newborn affected by delivery by vacuum extractor [ventouse]	Diagnosis	ICD-10-CM
P034	Newborn affected by Cesarean delivery	Diagnosis	ICD-10-CM
P035	Newborn affected by precipitate delivery	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM
P0821	Post-term newborn	Diagnosis	ICD-10-CM
P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM
Z370	Single live birth	Diagnosis	ICD-10-CM
Z372	Twins, both liveborn	Diagnosis	ICD-10-CM
Z373	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z3750	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z3751	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z3752	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z3753	Quintuplets, all liveborn	Diagnosis	ICD-10-CM
Z3754	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z3759	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triplets, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
Z379	Outcome of delivery, unspecified	Diagnosis	ICD-10-CM
Z3800	Single liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3801	Single liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z381	Single liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z382	Single liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3830	Twin liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3831	Twin liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z384	Twin liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z385	Twin liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
Z3861	Triplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3862	Triplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3863	Quadruplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3864	Quadruplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3865	Quintuplet liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3866	Quintuplet liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z3868	Other multiple liveborn infant, delivered vaginally	Diagnosis	ICD-10-CM
Z3869	Other multiple liveborn infant, delivered by cesarean	Diagnosis	ICD-10-CM
Z387	Other multiple liveborn infant, born outside hospital	Diagnosis	ICD-10-CM
Z388	Other multiple liveborn infant, unspecified as to place of birth	Diagnosis	ICD-10-CM
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
<b>Stillbirth delivery</b>			
O3100X0	Papyraceous fetus, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3100X1	Papyraceous fetus, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3100X2	Papyraceous fetus, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3100X3	Papyraceous fetus, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3100X4	Papyraceous fetus, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3100X5	Papyraceous fetus, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3100X9	Papyraceous fetus, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3102X0	Papyraceous fetus, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
O3102X1	Papyraceous fetus, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3102X2	Papyraceous fetus, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3102X3	Papyraceous fetus, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3102X4	Papyraceous fetus, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3102X5	Papyraceous fetus, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3102X9	Papyraceous fetus, second trimester, other fetus	Diagnosis	ICD-10-CM
O3103X0	Papyraceous fetus, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3103X1	Papyraceous fetus, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3103X2	Papyraceous fetus, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3103X3	Papyraceous fetus, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3103X4	Papyraceous fetus, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3103X5	Papyraceous fetus, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3103X9	Papyraceous fetus, third trimester, other fetus	Diagnosis	ICD-10-CM
O364	Maternal care for intrauterine death	Diagnosis	ICD-10-CM
O364XX0	Maternal care for intrauterine death, not applicable or unspecified	Diagnosis	ICD-10-CM
O364XX1	Maternal care for intrauterine death, fetus 1	Diagnosis	ICD-10-CM
O364XX2	Maternal care for intrauterine death, fetus 2	Diagnosis	ICD-10-CM
O364XX3	Maternal care for intrauterine death, fetus 3	Diagnosis	ICD-10-CM
O364XX4	Maternal care for intrauterine death, fetus 4	Diagnosis	ICD-10-CM
O364XX5	Maternal care for intrauterine death, fetus 5	Diagnosis	ICD-10-CM
O364XX9	Maternal care for intrauterine death, other fetus	Diagnosis	ICD-10-CM
P95	Stillbirth (may be on newborn record, not mother's)	Diagnosis	ICD-10-CM
Z371	Single stillbirth	Diagnosis	ICD-10-CM
Z373	Twins, one liveborn and one stillborn, pregnancy resulting from both spontaneous ovulation and conception	Diagnosis	ICD-10-CM
Z374	Twins, both stillborn	Diagnosis	ICD-10-CM
Z376	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triples, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z377	Other multiple births, all stillborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
<b>Spontaneous abortion</b>			
59821	Treatment of missed abortion, completed surgically; second trimester	Procedure	CPT-4
59820	Treatment of missed abortion, completed surgically; first trimester	Procedure	CPT-4
59812	Treatment of incomplete abortion, any trimester, completed surgically	Procedure	CPT-4
01965	Anesthesia for incomplete or missed abortion procedures	Procedure	CPT-4
0021	Missed abortion	Diagnosis	ICD-10-CM
0030	Genital tract and pelvic infection following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00337	Sepsis following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0035	Genital tract and pelvic infection following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00387	Sepsis following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
0031	Delayed or excessive hemorrhage following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0036	Delayed or excessive hemorrhage following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00334	Damage to pelvic organs following incomplete spontaneous abortion	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
00384	Damage to pelvic organs following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00332	Renal failure following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00382	Renal failure following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00333	Metabolic disorder following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00383	Metabolic disorder following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00331	Shock following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00381	Shock following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
0032	Embolism following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0037	Embolism following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00339	Incomplete spontaneous abortion with other complications	Diagnosis	ICD-10-CM
00385	Other venous complications following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00386	Cardiac arrest following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00388	Urinary tract infection following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
00389	Complete or unspecified spontaneous abortion with other complications	Diagnosis	ICD-10-CM
00335	Other venous complications following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00336	Cardiac arrest following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
00338	Urinary tract infection following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
0039	Complete or unspecified spontaneous abortion without complication	Diagnosis	ICD-10-CM
03113X0	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
03111X1	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
03111X2	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
03111X3	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
03111X4	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
03111X5	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
03112X1	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
03112X2	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
03112X3	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
03112X4	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
03112X5	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
03112	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester	Diagnosis	ICD-10-CM
03113X1	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
03113X2	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
03113X3	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
03113X4	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Pregnancy Incidence Criteria**

Code	Description	Code	
		Category	Code Type
O3113X5	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3113	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester	Diagnosis	ICD-10-CM
O3110X1	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3110X2	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3110X3	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3110X4	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3110X5	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3111	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester	Diagnosis	ICD-10-CM
O3110	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester	Diagnosis	ICD-10-CM
O311	Continuing pregnancy after spontaneous abortion of one fetus or more	Diagnosis	ICD-10-CM
O3111X9	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3112X9	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3113X9	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O3110X9	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3111X0	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3112X0	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3110X0	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O034	Incomplete spontaneous abortion without complication	Diagnosis	ICD-10-CM
O038	Other and unspecified complications following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
O033	Other and unspecified complications following incomplete spontaneous abortion	Diagnosis	ICD-10-CM
O03	Spontaneous abortion	Diagnosis	ICD-10-CM
O0380	Unspecified complication following complete or unspecified spontaneous abortion	Diagnosis	ICD-10-CM
O0330	Unspecified complication following incomplete spontaneous abortion	Diagnosis	ICD-10-CM



**Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Gestational Age**

Pregnancy Duration			Code			Priority	Priority	
Category	Code	Description	Category	Code Type	Duration	Group 1	Group 2	Priority <sup>1</sup>
<b>Gestational age lookup</b>								
Postterm: 281-301 days	Z3A49	Greater than 42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	301	1	0	1
Postterm: 281-301 days	O481	Prolonged pregnancy	Diagnosis	ICD-10-CM	294	0	1	1
Postterm: 281-301 days	P0822	Prolonged gestation of newborn	Diagnosis	ICD-10-CM	294	0	1	1
Postterm: 281-301 days	Z3A42	42 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	298	1	0	2
Postterm: 281-301 days	O480	Post-term pregnancy	Diagnosis	ICD-10-CM	287	0	1	2
Postterm: 281-301 days	P0821	Post-term newborn	Diagnosis	ICD-10-CM	287	0	1	2
Postterm: 281-301 days	Z3A41	41 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	291	1	0	3
Postterm: 281-301 days	Z3A40	40 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	284	1	0	4
Term: 259-280 days	Z3A39	39 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	277	1	0	5
Term: 259-280 days	Z3A38	38 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	270	1	0	6
Term: 259-280 days	Z3A37	37 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	263	1	0	7
Preterm: </258 days	P0739	Preterm newborn, gestational age 36 completed weeks	Diagnosis	ICD-10-CM	256	1	0	8
Preterm: </258 days	Z3A36	36 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	256	1	0	8
Preterm: </258 days	P0738	Preterm newborn, gestational age 35 completed weeks	Diagnosis	ICD-10-CM	249	1	0	9
Preterm: </258 days	Z3A35	35 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	249	1	0	9
Preterm: </258 days	P0737	Preterm newborn, gestational age 34 completed weeks	Diagnosis	ICD-10-CM	242	1	0	10
Preterm: </258 days	Z3A34	34 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	242	1	0	10
Preterm: </258 days	P0736	Preterm newborn, gestational age 33 completed weeks	Diagnosis	ICD-10-CM	235	1	0	11
Preterm: </258 days	Z3A33	33 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	235	1	0	11
Preterm: </258 days	P0735	Preterm newborn, gestational age 32 completed weeks	Diagnosis	ICD-10-CM	228	1	0	12
Preterm: </258 days	Z3A32	32 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	228	1	0	12
Preterm: </258 days	P0734	Preterm newborn, gestational age 31 completed weeks	Diagnosis	ICD-10-CM	221	1	0	13
Preterm: </258 days	Z3A31	31 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	221	1	0	13
Preterm: </258 days	P0733	Preterm newborn, gestational age 30 completed weeks	Diagnosis	ICD-10-CM	214	1	0	14
Preterm: </258 days	Z3A30	30 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	214	1	0	14
Preterm: </258 days	P0732	Preterm newborn, gestational age 29 completed weeks	Diagnosis	ICD-10-CM	207	1	0	15
Preterm: </258 days	Z3A29	29 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	207	1	0	15
Preterm: </258 days	P0731	Preterm newborn, gestational age 28 completed weeks	Diagnosis	ICD-10-CM	200	1	0	16
Preterm: </258 days	Z3A28	28 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	200	1	0	16
Preterm: </258 days	P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	Diagnosis	ICD-10-CM	193	1	0	17
Preterm: </258 days	Z3A27	27 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	193	1	0	17
Preterm: </258 days	P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	Diagnosis	ICD-10-CM	186	1	0	18
Preterm: </258 days	Z3A26	26 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	186	1	0	18

**Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Gestational Age**

Pregnancy Duration			Code			Priority	Priority	
Category	Code	Description	Category	Code Type	Duration	Group 1	Group 2	Priority <sup>1</sup>
Preterm: </258 days	P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	Diagnosis	ICD-10-CM	179	1	0	19
Preterm: </258 days	Z3A25	25 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	179	1	0	19
Preterm: </258 days	P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	Diagnosis	ICD-10-CM	172	1	0	20
Preterm: </258 days	Z3A24	24 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	172	1	0	20
Preterm: </258 days	P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	Diagnosis	ICD-10-CM	165	1	0	21
Preterm: </258 days	Z3A23	23 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	165	1	0	21
Preterm: </258 days	P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	Diagnosis	ICD-10-CM	158	1	0	22
Preterm: </258 days	Z3A22	22 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	158	1	0	22
Preterm: </258 days	Z3A21	21 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	151	1	0	23
Preterm: </258 days	Z3A20	20 weeks gestation of pregnancy	Diagnosis	ICD-10-CM	144	1	0	24
Preterm: </258 days	P0720	Extreme immaturity of newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM	196	1	0	25
Preterm: </258 days	O6013X0	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X1	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X2	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X3	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X4	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X5	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6013X9	Preterm labor second trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X0	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X1	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X2	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26

**Appendix D. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Gestational Age**

Pregnancy Duration			Code			Priority	Priority	
Category	Code	Description	Category	Code Type	Duration	Group 1	Group 2	Priority <sup>1</sup>
Preterm: </258 days	O6014X3	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X4	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X5	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6014X9	Preterm labor third trimester with preterm delivery third trimester	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	P0730	Preterm newborn, unspecified weeks of gestation	Diagnosis	ICD-10-CM	245	1	0	26
Preterm: </258 days	O6012X0	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X1	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X2	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X3	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X4	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X5	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27
Preterm: </258 days	O6012X9	Preterm labor second trimester with preterm delivery second trimester	Diagnosis	ICD-10-CM	168	1	0	27

<sup>1</sup>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  $\geq 42$  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, second 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 E. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define COVID-19**

Code	Description	Care Setting	Code	
			Category	Code Type
<b>COVID-19</b>				
U071	COVID-19	Any	Diagnosis	ICD-10-CM
B342	Coronavirus infection, unspecified	IP* IS*	Diagnosis	ICD-10-CM
B9721	SARS-associated coronavirus as the cause of diseases classified elsewhere	IP* IS*	Diagnosis	ICD-10-CM
B9729	Other coronavirus as the cause of diseases classified elsewhere	IP* IS*	Diagnosis	ICD-10-CM
J1281	Pneumonia due to SARS-associated coronavirus	IP* IS*	Diagnosis	ICD-10-CM

**Appendix F. Logical Observation Identifiers Names and Codes (LOINC) Mapped to Nucleic Acid Amplification Tests (NAAT) for SARS-CoV-2 in the Rapid COVID-19 Sentinel Distributed Database (SDD)**

LOINC	Description	Test Type	Amplification Type <sup>1</sup>
<b>SARS-CoV-2</b>			
94307-6	SARS-CoV-2 (COVID-19) N gene [Presence] in Unspecified specimen by Nucleic acid amplification using CDC primer-probe set N1	NAAT	PCR
94308-4	SARS-CoV-2 (COVID-19) N gene [Presence] in Unspecified specimen by Nucleic acid amplification using CDC primer-probe set N2	NAAT	PCR
94309-2	SARS-CoV-2 (COVID-19) RNA [Presence] in Unspecified specimen by NAA with probe detection	NAAT	PCR
94314-2	SARS-CoV-2 (COVID-19) RdRp gene [Presence] in Unspecified specimen by NAA with probe	NAAT	PCR
94316-7	SARS-CoV-2 (COVID-19) N gene [Presence] in Unspecified specimen by NAA with probe detection	NAAT	PCR
94500-6	SARS-CoV-2 (COVID-19) RNA [Presence] in Respiratory specimen by NAA with probe detection	NAAT	PCR
94533-7	SARS-CoV-2 (COVID-19) N gene [Presence] in Respiratory specimen by NAA with probe detection	NAAT	PCR
94534-5	SARS-CoV-2 (COVID-19) RdRp gene [Presence] in Respiratory specimen by NAA with probe detection	NAAT	PCR
94559-2	SARS-CoV-2 (COVID-19) ORF1ab region [Presence] in Respiratory specimen by NAA with probe detection	NAAT	PCR
94565-9	SARS-CoV-2 (COVID-19) RNA [Presence] in Nasopharynx by NAA with non-probe detection	NAAT	PCR
94639-2	SARS-CoV-2 (COVID-19) ORF1ab region [Presence] in Unspecified specimen by NAA with probe	NAAT	PCR
94640-0	SARS-CoV-2 (COVID-19) S gene [Presence] in Respiratory specimen by NAA with probe detection	NAAT	PCR
94641-8	SARS-CoV-2 (COVID-19) S gene [Presence] in Unspecified specimen by NAA with probe detection	NAAT	PCR
94660-8	SARS-CoV-2 (COVID-19) RNA [Presence] in Serum or Plasma by NAA with probe detection	NAAT	PCR
94756-4	SARS-CoV-2 (COVID-19) N gene [Presence] in Respiratory specimen by Nucleic acid amplification using CDC primer-probe set N1	NAAT	PCR
94757-2	SARS-CoV-2 (COVID-19) N gene [Presence] in Respiratory specimen by Nucleic acid amplification using CDC primer-probe set N2	NAAT	PCR
94759-8	SARS-CoV-2 (COVID-19) RNA [Presence] in Nasopharynx by NAA with probe detection	NAAT	PCR
94760-6	SARS-CoV-2 (COVID-19) N gene [Presence] in Nasopharynx by NAA with probe detection	NAAT	PCR
94766-3	SARS-CoV-2 (COVID-19) N gene [Presence] in Serum or Plasma by NAA with probe detection	NAAT	PCR
94767-1	SARS-CoV-2 (COVID-19) S gene [Presence] in Serum or Plasma by NAA with probe detection	NAAT	PCR
94845-5	SARS-CoV-2 (COVID-19) RNA [Presence] in Saliva (oral fluid) by NAA with probe detection	NAAT	PCR
95406-5	SARS-CoV-2 (COVID-19) RNA [Presence] in Nose by NAA with probe detection	NAAT	PCR
95409-9	SARS-CoV-2 (COVID-19) N gene [Presence] in Nose by NAA with probe detection	NAAT	PCR
95425-5	SARS-CoV-2 (COVID-19) N gene [Presence] in Saliva (oral fluid) by NAA with probe detection	NAAT	PCR
96448-6	SARS-CoV-2 (COVID-19) N gene [Presence] in Saliva (oral fluid) by Nucleic acid amplification using CDC primer-probe set N1	NAAT	PCR
95824-9	SARS-CoV-2 (COVID-19) ORF1ab region [Presence] in Saliva (oral fluid) by NAA with probe detection	NAAT	PCR
96120-1	SARS-CoV-2 (COVID-19) RdRp gene [Presence] in Lower respiratory specimen by NAA with probe detection	NAAT	PCR
96091-4	SARS-CoV-2 (COVID-19) RdRp gene [Presence] in Saliva (oral fluid) by NAA with probe detection	NAAT	PCR
96123-5	SARS-CoV-2 (COVID-19) RdRp gene [Presence] in Upper respiratory specimen by NAA with probe detection	NAAT	PCR
95608-6	SARS-CoV-2 (COVID-19) RNA [Presence] in Respiratory specimen by NAA with non-probe detection	NAAT	PCR
95423-0	Influenza virus A and B and SARS-CoV-2 (COVID-19) identified in Respiratory specimen by NAA with probe detection	NAAT	PCR

<sup>1</sup>PCR = Polymerase chain reaction

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Low birth weight</b>			
P07	Disorders of newborn related to short gestation and low birth weight, not elsewhere classified	Diagnosis	ICD-10-CM
P070	Extremely low birth weight newborn	Diagnosis	ICD-10-CM
P0700	Extremely low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0701	Extremely low birth weight newborn, less than 500 grams	Diagnosis	ICD-10-CM
P0702	Extremely low birth weight newborn, 500-749 grams	Diagnosis	ICD-10-CM
P0703	Extremely low birth weight newborn, 750-999 grams	Diagnosis	ICD-10-CM
P071	Other low birth weight newborn	Diagnosis	ICD-10-CM
P0710	Other low birth weight newborn, unspecified weight	Diagnosis	ICD-10-CM
P0714	Other low birth weight newborn, 1000-1249 grams	Diagnosis	ICD-10-CM
P0715	Other low birth weight newborn, 1250-1499 grams	Diagnosis	ICD-10-CM
P0716	Other low birth weight newborn, 1500-1749 grams	Diagnosis	ICD-10-CM
P0717	Other low birth weight newborn, 1750-1999 grams	Diagnosis	ICD-10-CM
P0718	Other low birth weight newborn, 2000-2499 grams	Diagnosis	ICD-10-CM
P072	Extreme immaturity	Diagnosis	ICD-10-CM
<b>Small for gestational age</b>			
P051	Newborn small for gestational age	Diagnosis	ICD-10-CM
P0510	Newborn small for gestational age, unspecified weight	Diagnosis	ICD-10-CM
P0511	Newborn small for gestational age, less than 500 grams	Diagnosis	ICD-10-CM
P0512	Newborn small for gestational age, 500-749 grams	Diagnosis	ICD-10-CM
P0513	Newborn small for gestational age, 750-999 grams	Diagnosis	ICD-10-CM
P0514	Newborn small for gestational age, 1000-1249 grams	Diagnosis	ICD-10-CM
P0515	Newborn small for gestational age, 1250-1499 grams	Diagnosis	ICD-10-CM
P0516	Newborn small for gestational age, 1500-1749 grams	Diagnosis	ICD-10-CM
P0517	Newborn small for gestational age, 1750-1999 grams	Diagnosis	ICD-10-CM
P0518	Newborn small for gestational age, 2000-2499 grams	Diagnosis	ICD-10-CM
P0519	Newborn small for gestational age, other	Diagnosis	ICD-10-CM
<b>Microcephaly</b>			
Q02	Microcephaly	Diagnosis	ICD-10-CM
<b>Major congenital malformation</b>			
Q00	Anencephaly and similar malformations	Diagnosis	ICD-10-CM
Q000	Anencephaly	Diagnosis	ICD-10-CM
Q001	Craniorachischisis	Diagnosis	ICD-10-CM
Q002	Iniencephaly	Diagnosis	ICD-10-CM
Q01	Encephalocele	Diagnosis	ICD-10-CM
Q010	Frontal encephalocele	Diagnosis	ICD-10-CM
Q011	Nasofrontal encephalocele	Diagnosis	ICD-10-CM
Q012	Occipital encephalocele	Diagnosis	ICD-10-CM
Q018	Encephalocele of other sites	Diagnosis	ICD-10-CM
Q019	Encephalocele, unspecified	Diagnosis	ICD-10-CM
Q02	Microcephaly	Diagnosis	ICD-10-CM
Q03	Congenital hydrocephalus	Diagnosis	ICD-10-CM
Q030	Malformations of aqueduct of Sylvius	Diagnosis	ICD-10-CM
Q031	Atresia of foramina of Magendie and Luschka	Diagnosis	ICD-10-CM
Q038	Other congenital hydrocephalus	Diagnosis	ICD-10-CM
Q039	Congenital hydrocephalus, unspecified	Diagnosis	ICD-10-CM
Q04	Other congenital malformations of brain	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q040	Congenital malformations of corpus callosum	Diagnosis	ICD-10-CM
Q041	Arhinencephaly	Diagnosis	ICD-10-CM
Q042	Holoprosencephaly	Diagnosis	ICD-10-CM
Q043	Other reduction deformities of brain	Diagnosis	ICD-10-CM
Q044	Septo-optic dysplasia of brain	Diagnosis	ICD-10-CM
Q046	Congenital cerebral cysts	Diagnosis	ICD-10-CM
Q048	Other specified congenital malformations of brain	Diagnosis	ICD-10-CM
Q049	Congenital malformation of brain, unspecified	Diagnosis	ICD-10-CM
Q05	Spina bifida	Diagnosis	ICD-10-CM
Q050	Cervical spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q051	Thoracic spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q052	Lumbar spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q053	Sacral spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q054	Unspecified spina bifida with hydrocephalus	Diagnosis	ICD-10-CM
Q055	Cervical spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q056	Thoracic spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q057	Lumbar spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q058	Sacral spina bifida without hydrocephalus	Diagnosis	ICD-10-CM
Q059	Spina bifida, unspecified	Diagnosis	ICD-10-CM
Q06	Other congenital malformations of spinal cord	Diagnosis	ICD-10-CM
Q060	Amyelia	Diagnosis	ICD-10-CM
Q061	Hypoplasia and dysplasia of spinal cord	Diagnosis	ICD-10-CM
Q062	Diastematomyelia	Diagnosis	ICD-10-CM
Q063	Other congenital cauda equina malformations	Diagnosis	ICD-10-CM
Q064	Hydromyelia	Diagnosis	ICD-10-CM
Q068	Other specified congenital malformations of spinal cord	Diagnosis	ICD-10-CM
Q069	Congenital malformation of spinal cord, unspecified	Diagnosis	ICD-10-CM
Q07	Other congenital malformations of nervous system	Diagnosis	ICD-10-CM
Q070	Arnold-Chiari syndrome	Diagnosis	ICD-10-CM
Q0700	Arnold-Chiari syndrome without spina bifida	Diagnosis	ICD-10-CM
Q0701	Arnold-Chiari syndrome with spina bifida	Diagnosis	ICD-10-CM
Q0702	Arnold-Chiari syndrome with hydrocephalus	Diagnosis	ICD-10-CM
Q0703	Arnold-Chiari syndrome with spina bifida and hydrocephalus	Diagnosis	ICD-10-CM
Q078	Other specified congenital malformations of nervous system	Diagnosis	ICD-10-CM
Q079	Congenital malformation of nervous system, unspecified	Diagnosis	ICD-10-CM
Q100	Congenital ptosis	Diagnosis	ICD-10-CM
Q101	Congenital ectropion	Diagnosis	ICD-10-CM
Q102	Congenital entropion	Diagnosis	ICD-10-CM
Q104	Absence and agenesis of lacrimal apparatus	Diagnosis	ICD-10-CM
Q106	Other congenital malformations of lacrimal apparatus	Diagnosis	ICD-10-CM
Q107	Congenital malformation of orbit	Diagnosis	ICD-10-CM
Q11	Anophthalmos, microphthalmos and macrophthalmos	Diagnosis	ICD-10-CM
Q110	Cystic eyeball	Diagnosis	ICD-10-CM
Q111	Other anophthalmos	Diagnosis	ICD-10-CM
Q112	Microphthalmos	Diagnosis	ICD-10-CM
Q12	Congenital lens malformations	Diagnosis	ICD-10-CM
Q120	Congenital cataract	Diagnosis	ICD-10-CM
Q121	Congenital displaced lens	Diagnosis	ICD-10-CM
Q122	Coloboma of lens	Diagnosis	ICD-10-CM
Q123	Congenital aphakia	Diagnosis	ICD-10-CM
Q124	Spherophakia	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q128	Other congenital lens malformations	Diagnosis	ICD-10-CM
Q129	Congenital lens malformation, unspecified	Diagnosis	ICD-10-CM
Q13	Congenital malformations of anterior segment of eye	Diagnosis	ICD-10-CM
Q130	Coloboma of iris	Diagnosis	ICD-10-CM
Q131	Absence of iris	Diagnosis	ICD-10-CM
Q132	Other congenital malformations of iris	Diagnosis	ICD-10-CM
Q133	Congenital corneal opacity	Diagnosis	ICD-10-CM
Q134	Other congenital corneal malformations	Diagnosis	ICD-10-CM
Q138	Other congenital malformations of anterior segment of eye	Diagnosis	ICD-10-CM
Q1381	Rieger's anomaly	Diagnosis	ICD-10-CM
Q1389	Other congenital malformations of anterior segment of eye	Diagnosis	ICD-10-CM
Q139	Congenital malformation of anterior segment of eye, unspecified	Diagnosis	ICD-10-CM
Q14	Congenital malformations of posterior segment of eye	Diagnosis	ICD-10-CM
Q140	Congenital malformation of vitreous humor	Diagnosis	ICD-10-CM
Q141	Congenital malformation of retina	Diagnosis	ICD-10-CM
Q142	Congenital malformation of optic disc	Diagnosis	ICD-10-CM
Q143	Congenital malformation of choroid	Diagnosis	ICD-10-CM
Q148	Other congenital malformations of posterior segment of eye	Diagnosis	ICD-10-CM
Q149	Congenital malformation of posterior segment of eye, unspacific	Diagnosis	ICD-10-CM
Q15	Other congenital malformations of eye	Diagnosis	ICD-10-CM
Q150	Congenital glaucoma	Diagnosis	ICD-10-CM
Q16	Congenital malformations of ear causing impairment of hearing	Diagnosis	ICD-10-CM
Q160	Congenital absence of (ear) auricle	Diagnosis	ICD-10-CM
Q161	Congenital absence, atresia and stricture of auditory canal (external)	Diagnosis	ICD-10-CM
Q162	Absence of eustachian tube	Diagnosis	ICD-10-CM
Q163	Congenital malformation of ear ossicles	Diagnosis	ICD-10-CM
Q164	Other congenital malformations of middle ear	Diagnosis	ICD-10-CM
Q165	Congenital malformation of inner ear	Diagnosis	ICD-10-CM
Q171	Macrotia	Diagnosis	ICD-10-CM
Q172	Microtia	Diagnosis	ICD-10-CM
Q174	Misplaced ear	Diagnosis	ICD-10-CM
Q180	Sinus, fistula and cyst of branchial cleft	Diagnosis	ICD-10-CM
Q182	Other branchial cleft malformations	Diagnosis	ICD-10-CM
Q20	Congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q200	Common arterial trunk	Diagnosis	ICD-10-CM
Q201	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q202	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q203	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q204	Double inlet ventricle	Diagnosis	ICD-10-CM
Q205	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q206	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q208	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q21	Congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q210	Ventricular septal defect	Diagnosis	ICD-10-CM
Q211	Atrial septal defect	Diagnosis	ICD-10-CM
Q2112	Patent foramen ovale	Diagnosis	ICD-10-CM
Q2120	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q212	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q213	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q214	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q218	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM



**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q22	Congenital malformations of pulmonary and tricuspid valves	Diagnosis	ICD-10-CM
Q220	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q221	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q224	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q225	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q226	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q23	Congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q230	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q232	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q234	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q238	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q240	Dextrocardia	Diagnosis	ICD-10-CM
Q242	Cor triatriatum	Diagnosis	ICD-10-CM
Q243	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q244	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q245	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q246	Congenital heart block	Diagnosis	ICD-10-CM
Q248	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q25	Congenital malformations of great arteries	Diagnosis	ICD-10-CM
Q250	Patent ductus arteriosus	Diagnosis	ICD-10-CM
Q251	Coarctation of aorta	Diagnosis	ICD-10-CM
Q252	Atresia of aortia	Diagnosis	ICD-10-CM
Q2521	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q2529	Other atresia of aorta	Diagnosis	ICD-10-CM
Q253	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q254	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q2540	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q2541	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q2542	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q2543	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q2544	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q2545	Double aortic arch	Diagnosis	ICD-10-CM
Q2546	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q2547	Right aortic arch	Diagnosis	ICD-10-CM
Q2548	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q2549	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q255	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q256	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q257	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q2571	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q2572	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q2579	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q26	Congenital malformations of great veins	Diagnosis	ICD-10-CM
Q260	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q261	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q262	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q263	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q264	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q265	Anomalous portal venous connection	Diagnosis	ICD-10-CM
Q266	Portal vein-hepatic artery fistula	Diagnosis	ICD-10-CM
Q271	Congenital renal artery stenosis	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q272	Other congenital malformations of renal artery	Diagnosis	ICD-10-CM
Q273	Arteriovenous malformation (peripheral)	Diagnosis	ICD-10-CM
Q2739	Arteriovenous malformation (other site)	Diagnosis	ICD-10-CM
Q274	Congenital phlebectasia	Diagnosis	ICD-10-CM
Q28	Other congenital malformations of circulatory system	Diagnosis	ICD-10-CM
Q280	Arteriovenous malformation of precerebral vessels	Diagnosis	ICD-10-CM
Q281	Other malformations of precerebral vessels	Diagnosis	ICD-10-CM
Q282	Arteriovenous malformation of cerebral vessels	Diagnosis	ICD-10-CM
Q283	Other malformations of cerebral vessels	Diagnosis	ICD-10-CM
Q300	Choanal atresia	Diagnosis	ICD-10-CM
Q301	Agenesis and underdevelopment of nose	Diagnosis	ICD-10-CM
Q302	Fissured, notched and cleft nose	Diagnosis	ICD-10-CM
Q303	Congenital perforated nasal septum	Diagnosis	ICD-10-CM
Q310	Web of larynx	Diagnosis	ICD-10-CM
Q311	Congenital subglottic stenosis	Diagnosis	ICD-10-CM
Q318	Other congenital malformations of larynx	Diagnosis	ICD-10-CM
Q319	Congenital malformation of larynx, unspecified	Diagnosis	ICD-10-CM
Q323	Congenital stenosis of bronchus	Diagnosis	ICD-10-CM
Q33	Congenital malformations of lung	Diagnosis	ICD-10-CM
Q330	Congenital cystic lung	Diagnosis	ICD-10-CM
Q331	Accessory lobe of lung	Diagnosis	ICD-10-CM
Q332	Sequestration of lung	Diagnosis	ICD-10-CM
Q333	Agenesis of lung	Diagnosis	ICD-10-CM
Q334	Congenital bronchiectasis	Diagnosis	ICD-10-CM
Q335	Ectopic tissue in lung	Diagnosis	ICD-10-CM
Q336	Congenital hypoplasia and dysplasia of lung	Diagnosis	ICD-10-CM
Q338	Other congenital malformations of lung	Diagnosis	ICD-10-CM
Q339	Congenital malformation of lung, unspecified	Diagnosis	ICD-10-CM
Q34	Other congenital malformations of respiratory system	Diagnosis	ICD-10-CM
Q340	Anomaly of pleura	Diagnosis	ICD-10-CM
Q341	Congenital cyst of mediastinum	Diagnosis	ICD-10-CM
Q348	Other specified congenital malformations of respiratory system	Diagnosis	ICD-10-CM
Q349	Congenital malformation of respiratory system, unspecified	Diagnosis	ICD-10-CM
Q35	Cleft palate	Diagnosis	ICD-10-CM
Q351	Cleft hard palate	Diagnosis	ICD-10-CM
Q353	Cleft soft palate	Diagnosis	ICD-10-CM
Q355	Left hard palate with cleft soft palate	Diagnosis	ICD-10-CM
Q357	Cleft uvula	Diagnosis	ICD-10-CM
Q359	Cleft palate, unspecified	Diagnosis	ICD-10-CM
Q36	Cleft lip	Diagnosis	ICD-10-CM
Q360	Cleft lip, bilateral	Diagnosis	ICD-10-CM
Q361	Cleft lip, median	Diagnosis	ICD-10-CM
Q369	Cleft lip, unilateral	Diagnosis	ICD-10-CM
Q37	Cleft palate with cleft lip	Diagnosis	ICD-10-CM
Q370	Cleft hard palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q371	Cleft hard palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q372	Cleft soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q373	Cleft soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q374	Cleft hard and soft palate with bilateral cleft lip	Diagnosis	ICD-10-CM
Q375	Cleft hard and soft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q378	Unspecified cleft palate with bilateral cleft lip	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q379	Unspecified cleft palate with unilateral cleft lip	Diagnosis	ICD-10-CM
Q382	Macroglossia	Diagnosis	ICD-10-CM
Q384	Congenital malformations of salivary glands and ducts	Diagnosis	ICD-10-CM
Q387	Congenital pharyngeal pouch	Diagnosis	ICD-10-CM
Q388	Other congenital malformations of pharynx	Diagnosis	ICD-10-CM
Q39	Congenital malformations of esophagus	Diagnosis	ICD-10-CM
Q390	Atresia of esophagus without fistula	Diagnosis	ICD-10-CM
Q391	Atresia of esophagus with tracheo-esophageal fistula	Diagnosis	ICD-10-CM
Q392	Congenital tracheo-esophageal fistula without atresia	Diagnosis	ICD-10-CM
Q393	Congenital stenosis and stricture of esophagus	Diagnosis	ICD-10-CM
Q394	Esophageal web	Diagnosis	ICD-10-CM
Q395	Congenital dilatation of esophagus	Diagnosis	ICD-10-CM
Q396	Congenital diverticulum of esophagus	Diagnosis	ICD-10-CM
Q398	Other congenital malformations of esophagus	Diagnosis	ICD-10-CM
Q399	Congenital malformation of esophagus, unspecified	Diagnosis	ICD-10-CM
Q40	Other congenital malformations of upper alimentary tract	Diagnosis	ICD-10-CM
Q400	Congenital hypertrophic pyloric stenosis	Diagnosis	ICD-10-CM
Q401	Congenital hiatus hernia	Diagnosis	ICD-10-CM
Q402	Other specified congenital malformations of stomach	Diagnosis	ICD-10-CM
Q403	Congenital malformation of stomach, unspecified	Diagnosis	ICD-10-CM
Q408	Other specified congenital malformations of upper alimentary tract	Diagnosis	ICD-10-CM
Q409	Congenital malformation of upper alimentary tract, unspecified	Diagnosis	ICD-10-CM
Q41	Congenital absence, atresia and stenosis of small intestine	Diagnosis	ICD-10-CM
Q410	Congenital absence, atresia and stenosis of duodenum	Diagnosis	ICD-10-CM
Q411	Congenital absence, atresia and stenosis of jejunum	Diagnosis	ICD-10-CM
Q412	Congenital absence, atresia and stenosis of ileum	Diagnosis	ICD-10-CM
Q418	Congenital absence, atresia and stenosis of other specified parts of small intestine	Diagnosis	ICD-10-CM
Q419	Congenital absence, atresia and stenosis of small intestine, part unspecified	Diagnosis	ICD-10-CM
Q42	Congenital absence, atresia and stenosis of large intestine	Diagnosis	ICD-10-CM
Q420	Congenital absence, atresia and stenosis of rectum with fistula	Diagnosis	ICD-10-CM
Q421	Congenital absence, atresia and stenosis of rectum without fistula	Diagnosis	ICD-10-CM
Q422	Congenital absence, atresia and stenosis of anus with fistula	Diagnosis	ICD-10-CM
Q423	Congenital absence, atresia and stenosis of anus without fistula	Diagnosis	ICD-10-CM
Q428	Congenital absence, atresia and stenosis of other parts of large intestine	Diagnosis	ICD-10-CM
Q429	Congenital absence, atresia and stenosis of large intestine, part unspecified	Diagnosis	ICD-10-CM
Q43	Other congenital malformations of intestine	Diagnosis	ICD-10-CM
Q431	Hirschsprung's disease	Diagnosis	ICD-10-CM
Q433	Congenital malformations of intestinal fixation	Diagnosis	ICD-10-CM
Q434	Duplication of intestine	Diagnosis	ICD-10-CM
Q435	Ectopic anus	Diagnosis	ICD-10-CM
Q436	Congenital fistula of rectum and anus	Diagnosis	ICD-10-CM
Q437	Persistent cloaca	Diagnosis	ICD-10-CM
Q438	Other specified congenital malformations of intestine	Diagnosis	ICD-10-CM
Q44	Congenital malformations of gallbladder, bile ducts and liver	Diagnosis	ICD-10-CM
Q440	Agenesis, aplasia and hypoplasia of gallbladder	Diagnosis	ICD-10-CM
Q441	Other congenital malformations of gallbladder	Diagnosis	ICD-10-CM
Q442	Atresia of bile ducts	Diagnosis	ICD-10-CM
Q443	Congenital stenosis and stricture of bile ducts	Diagnosis	ICD-10-CM
Q444	Choledochal cyst	Diagnosis	ICD-10-CM
Q445	Other congenital malformations of bile ducts	Diagnosis	ICD-10-CM
Q446	Cystic disease of liver	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q447	Other congenital malformations of liver	Diagnosis	ICD-10-CM
Q45	Other congenital malformations of digestive system	Diagnosis	ICD-10-CM
Q450	Agenesis, aplasia and hypoplasia of pancreas	Diagnosis	ICD-10-CM
Q451	Annular pancreas	Diagnosis	ICD-10-CM
Q452	Congenital pancreatic cyst	Diagnosis	ICD-10-CM
Q453	Other congenital malformations of pancreas and pancreatic duct	Diagnosis	ICD-10-CM
Q458	Other specified congenital malformations of digestive system	Diagnosis	ICD-10-CM
Q459	Congenital malformation of digestive system, unspecified	Diagnosis	ICD-10-CM
Q50	Congenital malformations of ovaries, fallopian tubes and broad ligaments	Diagnosis	ICD-10-CM
Q500	Congenital absence of ovary	Diagnosis	ICD-10-CM
Q501	Developmental ovarian cyst	Diagnosis	ICD-10-CM
Q502	Congenital torsion of ovary	Diagnosis	ICD-10-CM
Q503	Other congenital malformations of ovary	Diagnosis	ICD-10-CM
Q5031	Accessory ovary	Diagnosis	ICD-10-CM
Q5032	Ovarian streak	Diagnosis	ICD-10-CM
Q5039	Other congenital malformation of ovary	Diagnosis	ICD-10-CM
Q504	Embryonic cyst of fallopian tube	Diagnosis	ICD-10-CM
Q505	Embryonic cyst of broad ligament	Diagnosis	ICD-10-CM
Q506	Other congenital malformations of fallopian tube and broad ligament	Diagnosis	ICD-10-CM
Q51	Congenital malformations of uterus and cervix	Diagnosis	ICD-10-CM
Q510	Agenesis and aplasia of uterus	Diagnosis	ICD-10-CM
Q511	Doubling of uterus with doubling of cervix and vagina	Diagnosis	ICD-10-CM
Q512	Other doubling of uterus	Diagnosis	ICD-10-CM
Q5128	Other and unspecified doubling of uterus	Diagnosis	ICD-10-CM
Q513	Bicornate uterus	Diagnosis	ICD-10-CM
Q514	Unicornate uterus	Diagnosis	ICD-10-CM
Q515	Agenesis and aplasia of cervix	Diagnosis	ICD-10-CM
Q517	Congenital fistulae between uterus and digestive and urinary tracts	Diagnosis	ICD-10-CM
Q518	Other congenital malformations of uterus and cervix	Diagnosis	ICD-10-CM
Q5181	Other congenital malformations of uterus	Diagnosis	ICD-10-CM
Q51818	Other congenital malformations of uterus	Diagnosis	ICD-10-CM
Q5182	Other congenital malformations of cervix	Diagnosis	ICD-10-CM
Q51820	Cervical duplication	Diagnosis	ICD-10-CM
Q519	Congenital malformation of uterus and cervix, unspecified	Diagnosis	ICD-10-CM
Q52	Other congenital malformations of female genitalia	Diagnosis	ICD-10-CM
Q520	Congenital absence of vagina	Diagnosis	ICD-10-CM
Q521	Doubling of vagina	Diagnosis	ICD-10-CM
Q5210	Doubling of vagina, unspecified	Diagnosis	ICD-10-CM
Q5211	Transverse vaginal septum	Diagnosis	ICD-10-CM
Q5212	Longitudinal vaginal septum	Diagnosis	ICD-10-CM
Q522	Congenital rectovaginal fistula	Diagnosis	ICD-10-CM
Q526	Congenital malformation of clitoris	Diagnosis	ICD-10-CM
Q527	Other and unspecified congenital malformations of vulva	Diagnosis	ICD-10-CM
Q5270	Unspecified congenital malformations of vulva	Diagnosis	ICD-10-CM
Q5271	Congenital absence of vulva	Diagnosis	ICD-10-CM
Q5279	Other congenital malformations of vulva	Diagnosis	ICD-10-CM
Q528	Other specified congenital malformations of female genitalia	Diagnosis	ICD-10-CM
Q5311	Abdominal testis, unilateral	Diagnosis	ICD-10-CM
Q53111	Unilateral intraabdominal testis	Diagnosis	ICD-10-CM
Q5321	Abdominal testis, bilateral	Diagnosis	ICD-10-CM
Q53211	Bilateral intraabdominal testes	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q54	Hypospadias	Diagnosis	ICD-10-CM
Q540	Hypospadias, balanic	Diagnosis	ICD-10-CM
Q541	Hypospadias, penile	Diagnosis	ICD-10-CM
Q542	Hypospadias, penoscrotal	Diagnosis	ICD-10-CM
Q543	Hypospadias, perineal	Diagnosis	ICD-10-CM
Q544	Congenital chordee	Diagnosis	ICD-10-CM
Q548	Other hypospadias	Diagnosis	ICD-10-CM
Q549	Hypospadias, unspecified	Diagnosis	ICD-10-CM
Q55	Other congenital malformations of male genital organs	Diagnosis	ICD-10-CM
Q550	Absence and aplasia of testis	Diagnosis	ICD-10-CM
Q551	Hypoplasia of testis and scrotum	Diagnosis	ICD-10-CM
Q5521	Polyorchism	Diagnosis	ICD-10-CM
Q5523	Scrotal transposition	Diagnosis	ICD-10-CM
Q5529	Other congenital malformations of testis and scrotum	Diagnosis	ICD-10-CM
Q553	Atresia of vas deferens	Diagnosis	ICD-10-CM
Q554	Other congenital malformations of vas deferens, epididymis, seminal vesicles and prostate	Diagnosis	ICD-10-CM
Q555	Congenital absence and aplasia of penis	Diagnosis	ICD-10-CM
Q5562	Hypoplasia of penis	Diagnosis	ICD-10-CM
Q5569	Other congenital malformation of penis	Diagnosis	ICD-10-CM
Q559	Congenital malformation of male genital organ, unspecified	Diagnosis	ICD-10-CM
Q56	Indeterminate sex and pseudohermaphroditism	Diagnosis	ICD-10-CM
Q560	Hermaphroditism, not elsewhere classified	Diagnosis	ICD-10-CM
Q561	Male pseudohermaphroditism, not elsewhere classified	Diagnosis	ICD-10-CM
Q562	Female pseudohermaphroditism, not elsewhere classified	Diagnosis	ICD-10-CM
Q563	Pseudohermaphroditism, unspecified	Diagnosis	ICD-10-CM
Q564	Indeterminate sex, unspecified	Diagnosis	ICD-10-CM
Q60	Renal agenesis and other reduction defects of kidney	Diagnosis	ICD-10-CM
Q600	Renal agenesis, unilateral	Diagnosis	ICD-10-CM
Q601	Renal agenesis, bilateral	Diagnosis	ICD-10-CM
Q602	Renal agenesis, unspecified	Diagnosis	ICD-10-CM
Q603	Renal hypoplasia, unilateral	Diagnosis	ICD-10-CM
Q604	Renal hypoplasia, bilateral	Diagnosis	ICD-10-CM
Q605	Renal hypoplasia, unspecified	Diagnosis	ICD-10-CM
Q606	Potter's syndrome	Diagnosis	ICD-10-CM
Q61	Cystic kidney disease	Diagnosis	ICD-10-CM
Q610	Congenital renal cyst	Diagnosis	ICD-10-CM
Q6100	Congenital renal cyst, unspecified	Diagnosis	ICD-10-CM
Q6101	Congenital single renal cyst	Diagnosis	ICD-10-CM
Q6102	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q611	Polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q6111	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q6119	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q612	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q613	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q614	Renal dysplasia	Diagnosis	ICD-10-CM
Q615	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q618	Other cystic kidney diseases	Diagnosis	ICD-10-CM
Q619	Cystic kidney disease, unspecified	Diagnosis	ICD-10-CM
Q62	Congenital obstructive defects of renal pelvis and congenital malformations of ureter	Diagnosis	ICD-10-CM
Q621	Congenital occlusion of ureter	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q6210	Congenital occlusion of ureter, unspecified	Diagnosis	ICD-10-CM
Q6211	Congenital occlusion of ureteropelvic junction	Diagnosis	ICD-10-CM
Q6212	Congenital occlusion of ureterovesical orifice	Diagnosis	ICD-10-CM
Q622	Congenital megaureter	Diagnosis	ICD-10-CM
Q623	Other obstructive defects of renal pelvis and ureter	Diagnosis	ICD-10-CM
Q6231	Congenital ureterocele, orthotopic	Diagnosis	ICD-10-CM
Q6232	Cecoureterocele	Diagnosis	ICD-10-CM
Q624	Agenesis of ureter	Diagnosis	ICD-10-CM
Q625	Duplication of ureter	Diagnosis	ICD-10-CM
Q626	Malposition of ureter	Diagnosis	ICD-10-CM
Q6260	Malposition of ureter, unspecified	Diagnosis	ICD-10-CM
Q6261	Deviation of ureter	Diagnosis	ICD-10-CM
Q6262	Displacement of ureter	Diagnosis	ICD-10-CM
Q6263	Anomalous implantation of ureter	Diagnosis	ICD-10-CM
Q6269	Other malposition of ureter	Diagnosis	ICD-10-CM
Q627	Congenital vesico-uretero-renal reflux	Diagnosis	ICD-10-CM
Q63	Other congenital malformations of kidney	Diagnosis	ICD-10-CM
Q630	Accessory kidney	Diagnosis	ICD-10-CM
Q631	Lobulated, fused and horseshoe kidney	Diagnosis	ICD-10-CM
Q632	Ectopic kidney	Diagnosis	ICD-10-CM
Q633	Hyperplastic and giant kidney	Diagnosis	ICD-10-CM
Q64	Other congenital malformations of urinary system	Diagnosis	ICD-10-CM
Q640	Epispadias	Diagnosis	ICD-10-CM
Q641	Exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q6410	Exstrophy of urinary bladder, unspecified	Diagnosis	ICD-10-CM
Q6411	Supravesical fissure of urinary bladder	Diagnosis	ICD-10-CM
Q6412	Cloacal exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q6419	Other exstrophy of urinary bladder	Diagnosis	ICD-10-CM
Q642	Congenital posterior urethral valves	Diagnosis	ICD-10-CM
Q643	Other atresia and stenosis of urethra and bladder neck	Diagnosis	ICD-10-CM
Q6431	Congenital bladder neck obstruction	Diagnosis	ICD-10-CM
Q6432	Congenital stricture of urethra	Diagnosis	ICD-10-CM
Q6433	Congenital stricture of urinary meatus	Diagnosis	ICD-10-CM
Q6439	Other atresia and stenosis of urethra and bladder neck	Diagnosis	ICD-10-CM
Q644	Malformation of urachus	Diagnosis	ICD-10-CM
Q645	Congenital absence of bladder and urethra	Diagnosis	ICD-10-CM
Q646	Congenital diverticulum of bladder	Diagnosis	ICD-10-CM
Q647	Other and unspecified congenital malformations of bladder and urethra	Diagnosis	ICD-10-CM
Q6470	Unspecified congenital malformation of bladder and urethra	Diagnosis	ICD-10-CM
Q6471	Congenital prolapse of urethra	Diagnosis	ICD-10-CM
Q6472	Congenital prolapse of urinary meatus	Diagnosis	ICD-10-CM
Q6473	Congenital urethrorectal fistula	Diagnosis	ICD-10-CM
Q6474	Double urethra	Diagnosis	ICD-10-CM
Q6475	Double urinary meatus	Diagnosis	ICD-10-CM
Q6479	Other congenital malformations of bladder and urethra	Diagnosis	ICD-10-CM
Q648	Other specified congenital malformations of urinary system	Diagnosis	ICD-10-CM
Q649	Congenital malformation of urinary system, unspecified	Diagnosis	ICD-10-CM
Q65	Congenital deformities of hip	Diagnosis	ICD-10-CM
Q650	Congenital dislocation of hip, unilateral	Diagnosis	ICD-10-CM
Q6500	Congenital dislocation of hip, unilateral	Diagnosis	ICD-10-CM
Q6501	Congenital dislocation of right hip, unilateral	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q6502	Congenital dislocation of left hip, unilateral	Diagnosis	ICD-10-CM
Q651	Congenital dislocation of hip, bilateral	Diagnosis	ICD-10-CM
Q652	Congenital dislocation of hip, unspecified	Diagnosis	ICD-10-CM
Q653	Congenital partial dislocation of hip, unilateral	Diagnosis	ICD-10-CM
Q654	Congenital partial dislocation of hip, bilateral	Diagnosis	ICD-10-CM
Q655	Congenital partial dislocation of hip, unspecified	Diagnosis	ICD-10-CM
Q658	Other congenital deformities of hip	Diagnosis	ICD-10-CM
Q6581	Congenital coxa valga	Diagnosis	ICD-10-CM
Q6582	Congenital coxa vara	Diagnosis	ICD-10-CM
Q6589	Other specified congenital deformities of hip	Diagnosis	ICD-10-CM
Q66	Congenital deformities of feet	Diagnosis	ICD-10-CM
Q660	Congenital talipes equinovarus	Diagnosis	ICD-10-CM
Q6600	Congenital talipes equinovarus	Diagnosis	ICD-10-CM
Q6601	Congenital talipes equinovarus right foot	Diagnosis	ICD-10-CM
Q6602	Congenital talipes equinovarus left foot	Diagnosis	ICD-10-CM
Q661	Congenital talipes calcaneovarus	Diagnosis	ICD-10-CM
Q6610	Congenital talipes calcaneovarus, unspecified foot	Diagnosis	ICD-10-CM
Q6611	Congenital talipes calcaneovarus, right foot	Diagnosis	ICD-10-CM
Q6612	Congenital talipes calcaneovarus, left foot	Diagnosis	ICD-10-CM
Q663	Other congenital varus deformities of feet	Diagnosis	ICD-10-CM
Q6630	Other congenital varus deformities of feet	Diagnosis	ICD-10-CM
Q6632	Other congenital varus deformities of feet	Diagnosis	ICD-10-CM
Q664	Congenital talipes calcaneovalgus	Diagnosis	ICD-10-CM
Q6640	Congenital talipes calcaneovalgus	Diagnosis	ICD-10-CM
Q6641	Congenital talipes calcaneovalgus, right foot	Diagnosis	ICD-10-CM
Q6642	Congenital talipes calcaneovalgus, left foot	Diagnosis	ICD-10-CM
Q666	Other congenital valgus deformities of feet	Diagnosis	ICD-10-CM
Q667	Congenital pes cavus	Diagnosis	ICD-10-CM
Q668	Other congenital deformities of feet	Diagnosis	ICD-10-CM
Q6680	Congenital vertical talus deformity, unspecified foot	Diagnosis	ICD-10-CM
Q6681	Congenital vertical talus deformity, right foot	Diagnosis	ICD-10-CM
Q6682	Congenital vertical talus deformity, left foot	Diagnosis	ICD-10-CM
Q6689	Other specified congenital deformities of feet	Diagnosis	ICD-10-CM
Q67	Congenital musculoskeletal deformities of head, face, spine and chest	Diagnosis	ICD-10-CM
Q670	Congenital facial asymmetry	Diagnosis	ICD-10-CM
Q671	Congenital compression facies	Diagnosis	ICD-10-CM
Q674	Other congenital deformities of skull, face and jaw	Diagnosis	ICD-10-CM
Q675	Congenital deformity of spine	Diagnosis	ICD-10-CM
Q676	Pectus excavatum	Diagnosis	ICD-10-CM
Q677	Pectus carinatum	Diagnosis	ICD-10-CM
Q678	Other congenital deformities of chest	Diagnosis	ICD-10-CM
Q68	Other congenital musculoskeletal deformities	Diagnosis	ICD-10-CM
Q680	Congenital deformity of sternocleidomastoid muscle	Diagnosis	ICD-10-CM
Q681	Congenital deformity of finger(s) and hand	Diagnosis	ICD-10-CM
Q682	Congenital deformity of knee	Diagnosis	ICD-10-CM
Q683	Congenital bowing of femur	Diagnosis	ICD-10-CM
Q684	Congenital bowing of tibia and fibula	Diagnosis	ICD-10-CM
Q685	Congenital bowing of long bones of leg, unspecified	Diagnosis	ICD-10-CM
Q686	Discoid meniscus	Diagnosis	ICD-10-CM
Q688	Other specified congenital musculoskeletal deformities	Diagnosis	ICD-10-CM
Q69	Polydactyly	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q690	Accessory finger(s)	Diagnosis	ICD-10-CM
Q691	Accessory thumb(s)	Diagnosis	ICD-10-CM
Q692	Accessory toe(s)	Diagnosis	ICD-10-CM
Q699	Polydactyly, unspecified	Diagnosis	ICD-10-CM
Q70	Syndactyly	Diagnosis	ICD-10-CM
Q700	Fused fingers	Diagnosis	ICD-10-CM
Q7001	Fused fingers, right hand	Diagnosis	ICD-10-CM
Q701	Webbed fingers	Diagnosis	ICD-10-CM
Q7011	Webbed fingers	Diagnosis	ICD-10-CM
Q702	Fused toes	Diagnosis	ICD-10-CM
Q7020	Fused toes	Diagnosis	ICD-10-CM
Q703	Webbed toes	Diagnosis	ICD-10-CM
Q7031	Webbed toes	Diagnosis	ICD-10-CM
Q7032	Webbed toes	Diagnosis	ICD-10-CM
Q7033	Webbed toes	Diagnosis	ICD-10-CM
Q704	Polysyndactyly, unspecified	Diagnosis	ICD-10-CM
Q709	Syndactyly, unspecified	Diagnosis	ICD-10-CM
Q71	Reduction defects of upper limb	Diagnosis	ICD-10-CM
Q710	Congenital complete absence of upper limb	Diagnosis	ICD-10-CM
Q7100	Congenital complete absence of unspecified upper limb	Diagnosis	ICD-10-CM
Q7101	Congenital complete absence of right upper limb	Diagnosis	ICD-10-CM
Q7102	Congenital complete absence of left upper limb	Diagnosis	ICD-10-CM
Q7103	Congenital complete absence of upper limb, bilateral	Diagnosis	ICD-10-CM
Q711	Congenital absence of upper arm and forearm with hand present	Diagnosis	ICD-10-CM
Q7110	Congenital absence of unspecified upper arm and forearm with hand present	Diagnosis	ICD-10-CM
Q7111	Congenital absence of right upper arm and forearm with hand present	Diagnosis	ICD-10-CM
Q7112	Congenital absence of left upper arm and forearm with hand present	Diagnosis	ICD-10-CM
Q7113	Congenital absence of upper arm and forearm with hand present, bilateral	Diagnosis	ICD-10-CM
Q712	Congenital absence of both forearm and hand	Diagnosis	ICD-10-CM
Q7120	Congenital absence of both forearm and hand, unspecified upper limb	Diagnosis	ICD-10-CM
Q7121	Congenital absence of both forearm and hand	Diagnosis	ICD-10-CM
Q7122	Congenital absence of both forearm and hand, left upper limb	Diagnosis	ICD-10-CM
Q7123	Congenital absence of both forearm and hand, bilateral	Diagnosis	ICD-10-CM
Q713	Congenital absence of hand and finger	Diagnosis	ICD-10-CM
Q7130	Congenital absence of hand and finger	Diagnosis	ICD-10-CM
Q7131	Congenital absence of hand and finger	Diagnosis	ICD-10-CM
Q7132	Congenital absence of left hand and finger	Diagnosis	ICD-10-CM
Q7133	Congenital absence of hand and finger, thumb	Diagnosis	ICD-10-CM
Q714	Longitudinal reduction defect of radius	Diagnosis	ICD-10-CM
Q7140	Longitudinal reduction defect of unspecified radius	Diagnosis	ICD-10-CM
Q7141	Longitudinal reduction defect of right radius	Diagnosis	ICD-10-CM
Q7142	Longitudinal reduction defect of left radius	Diagnosis	ICD-10-CM
Q7143	Longitudinal reduction defect of radius, bilateral	Diagnosis	ICD-10-CM
Q715	Longitudinal reduction defect of ulna	Diagnosis	ICD-10-CM
Q7150	Longitudinal reduction defect of unspecified ulna	Diagnosis	ICD-10-CM
Q7151	Longitudinal reduction defect of right ulna	Diagnosis	ICD-10-CM
Q7152	Longitudinal reduction defect of ulna, left	Diagnosis	ICD-10-CM
Q7153	Longitudinal reduction defect of ulna, bilateral	Diagnosis	ICD-10-CM
Q716	Lobster-claw hand	Diagnosis	ICD-10-CM
Q7160	Lobster-claw hand	Diagnosis	ICD-10-CM
Q7161	Lobster-claw right hand	Diagnosis	ICD-10-CM



**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q7162	Lobster-claw left hand	Diagnosis	ICD-10-CM
Q7163	Lobster-claw hand, bilateral	Diagnosis	ICD-10-CM
Q718	Other reduction defects of upper limb	Diagnosis	ICD-10-CM
Q71811	Congenital shortening of right upper limb	Diagnosis	ICD-10-CM
Q71812	Congenital shortening of left upper limb	Diagnosis	ICD-10-CM
Q71813	Congenital shortening of upper limb, bilateral	Diagnosis	ICD-10-CM
Q71819	Congenital shortening of unspecified upper limb	Diagnosis	ICD-10-CM
Q71891	Other reduction defects of right upper limb	Diagnosis	ICD-10-CM
Q71892	Other reduction defects of left upper limb	Diagnosis	ICD-10-CM
Q71893	Other reduction defects of upper limb, bilateral	Diagnosis	ICD-10-CM
Q71899	Other reduction defects of unspecified upper limb	Diagnosis	ICD-10-CM
Q719	Unspecified reduction defect of upper limb	Diagnosis	ICD-10-CM
Q7190	Unspecified reduction defect of unspecified upper limb	Diagnosis	ICD-10-CM
Q7191	Unspecified reduction defect of right upper limb	Diagnosis	ICD-10-CM
Q7192	Unspecified reduction defect of left upper limb	Diagnosis	ICD-10-CM
Q7193	Unspecified reduction defect of upper limb, bilateral	Diagnosis	ICD-10-CM
Q72	Reduction defects of lower limb	Diagnosis	ICD-10-CM
Q720	Congenital complete absence of lower limb	Diagnosis	ICD-10-CM
Q7200	Congenital complete absence of unspecified lower limb	Diagnosis	ICD-10-CM
Q7201	Congenital complete absence of right lower limb	Diagnosis	ICD-10-CM
Q7202	Congenital complete absence of left lower limb	Diagnosis	ICD-10-CM
Q7203	Congenital complete absence of lower limb, bilateral	Diagnosis	ICD-10-CM
Q721	Congenital absence of thigh and lower leg with foot present	Diagnosis	ICD-10-CM
Q7210	Congenital absence of unspecified thigh and lower leg with foot present	Diagnosis	ICD-10-CM
Q7211	Congenital absence of right thigh and lower leg with foot present	Diagnosis	ICD-10-CM
Q7212	Congenital absence of left thigh and lower leg with foot present	Diagnosis	ICD-10-CM
Q7213	Congenital absence of thigh and lower leg with foot present, bilateral	Diagnosis	ICD-10-CM
Q722	Congenital absence of both lower leg and foot	Diagnosis	ICD-10-CM
Q7220	Congenital absence of both lower leg and foot, unspecified lower limb	Diagnosis	ICD-10-CM
Q7221	Congenital absence of both lower leg and foot, right lower limb	Diagnosis	ICD-10-CM
Q7222	Congenital absence of both lower leg and foot, left lower limb	Diagnosis	ICD-10-CM
Q7223	Congenital absence of both lower leg and foot, bilateral	Diagnosis	ICD-10-CM
Q723	Congenital absence of foot and toe(s)	Diagnosis	ICD-10-CM
Q7230	Congenital absence of foot and toe(s)	Diagnosis	ICD-10-CM
Q7231	Congenital absence of foot and toe(s)	Diagnosis	ICD-10-CM
Q7232	Congenital absence of left foot and toe(s)	Diagnosis	ICD-10-CM
Q7233	Congenital absence of foot and toe(s), bilateral	Diagnosis	ICD-10-CM
Q724	Longitudinal reduction defect of femur	Diagnosis	ICD-10-CM
Q7240	Longitudinal reduction defect of unspecified femur	Diagnosis	ICD-10-CM
Q7241	Longitudinal reduction defect of right femur	Diagnosis	ICD-10-CM
Q7242	Longitudinal reduction defect of left femur	Diagnosis	ICD-10-CM
Q7243	Longitudinal reduction defect of femur	Diagnosis	ICD-10-CM
Q725	Longitudinal reduction defect of tibia	Diagnosis	ICD-10-CM
Q7250	Longitudinal reduction defect of unspecified tibia	Diagnosis	ICD-10-CM
Q7251	Longitudinal reduction defect of right tibia	Diagnosis	ICD-10-CM
Q7252	Longitudinal reduction defect of left tibia	Diagnosis	ICD-10-CM
Q7253	Longitudinal reduction defect of tibia, bilateral	Diagnosis	ICD-10-CM
Q726	Longitudinal reduction defect of fibula	Diagnosis	ICD-10-CM
Q7260	Longitudinal reduction defect of unspecified fibula	Diagnosis	ICD-10-CM
Q7261	Longitudinal reduction defect of right fibula	Diagnosis	ICD-10-CM
Q7262	Longitudinal reduction defect of left fibula	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

Code	Description	Code	
		Category	Code Type
Q7263	Longitudinal reduction defect of fibula, bilateral	Diagnosis	ICD-10-CM
Q727	Split foot	Diagnosis	ICD-10-CM
Q7270	Split foot	Diagnosis	ICD-10-CM
Q7271	Split foot, right lower limb	Diagnosis	ICD-10-CM
Q7272	Split foot, left lower limb	Diagnosis	ICD-10-CM
Q7273	Split foot, bilateral	Diagnosis	ICD-10-CM
Q728	Other reduction defects of lower limb	Diagnosis	ICD-10-CM
Q72811	Congenital shortening of right lower limb	Diagnosis	ICD-10-CM
Q72812	Congenital shortening of left lower limb	Diagnosis	ICD-10-CM
Q72813	Congenital shortening of lower limb, bilateral	Diagnosis	ICD-10-CM
Q72819	Congenital shortening of unspecified lower limb	Diagnosis	ICD-10-CM
Q72891	Other reduction defects of right lower limb	Diagnosis	ICD-10-CM
Q72892	Other reduction defects of left lower limb	Diagnosis	ICD-10-CM
Q72893	Other reduction defects of lower limb, bilateral	Diagnosis	ICD-10-CM
Q72899	Other reduction defects of unspecified lower limb	Diagnosis	ICD-10-CM
Q729	Unspecified reduction defect of lower limb	Diagnosis	ICD-10-CM
Q7290	Unspecified reduction defect of lower limb	Diagnosis	ICD-10-CM
Q7291	Unspecified reduction defect of right lower limb	Diagnosis	ICD-10-CM
Q7292	Unspecified reduction defect of left lower limb	Diagnosis	ICD-10-CM
Q7293	Unspecified reduction defect of lower limb, bilateral	Diagnosis	ICD-10-CM
Q73	Reduction defects of unspecified limb	Diagnosis	ICD-10-CM
Q730	Congenital absence of unspecified limb(s)	Diagnosis	ICD-10-CM
Q731	Phocomelia, unspecified limb(s)	Diagnosis	ICD-10-CM
Q738	Other reduction defects of unspecified limb(s)	Diagnosis	ICD-10-CM
Q74	Other congenital malformations of limb(s)	Diagnosis	ICD-10-CM
Q740	Oth congen malform of upper limb(s), inc shoulder girdle	Diagnosis	ICD-10-CM
Q741	Congenital malformation of knee	Diagnosis	ICD-10-CM
Q742	Oth congen malform of lower limb(s), including pelvic girdle	Diagnosis	ICD-10-CM
Q743	Arthrogyrosis multiplex congenita	Diagnosis	ICD-10-CM
Q748	Other specified congenital malformations of limb(s)	Diagnosis	ICD-10-CM
Q75	Other congenital malformations of skull and face bones	Diagnosis	ICD-10-CM
Q750	Craniosynostosis	Diagnosis	ICD-10-CM
Q751	Craniofacial dysostosis	Diagnosis	ICD-10-CM
Q752	Hypertelorism	Diagnosis	ICD-10-CM
Q753	Macrocephaly	Diagnosis	ICD-10-CM
Q754	Mandibulofacial dysostosis	Diagnosis	ICD-10-CM
Q755	Oculomandibular dysostosis	Diagnosis	ICD-10-CM
Q758	Other specified congenital malformations of skull and face bones	Diagnosis	ICD-10-CM
Q76	Congenital malformations of spine and bony thorax	Diagnosis	ICD-10-CM
Q760	Spina bifida occulta	Diagnosis	ICD-10-CM
Q761	Klippel-Feil syndrome	Diagnosis	ICD-10-CM
Q762	Congenital spondylolisthesis	Diagnosis	ICD-10-CM
Q763	Congenital scoliosis due to congenital bony malformation	Diagnosis	ICD-10-CM
Q764	Other congenital malformations of spine, not associated with scoliosis	Diagnosis	ICD-10-CM
Q7641	Congenital kyphosis	Diagnosis	ICD-10-CM
Q7642	Congenital lordosis	Diagnosis	ICD-10-CM
Q7649	Oth congenital malform of spine, not associated w scoliosis	Diagnosis	ICD-10-CM
Q766	Other congenital malformations of ribs	Diagnosis	ICD-10-CM
Q767	Congenital malformation of sternum	Diagnosis	ICD-10-CM
Q768	Other congenital malformations of bony thorax	Diagnosis	ICD-10-CM
Q77	Osteochondrodysplasia with defects of growth of tubular bones and spine	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q770	Achondrogenesis	Diagnosis	ICD-10-CM
Q771	Thanatophoric short stature	Diagnosis	ICD-10-CM
Q772	Short rib syndrome	Diagnosis	ICD-10-CM
Q773	Chondrodysplasia punctata	Diagnosis	ICD-10-CM
Q774	Achondroplasia	Diagnosis	ICD-10-CM
Q775	Diastrophic dysplasia	Diagnosis	ICD-10-CM
Q776	Chondroectodermal dysplasia	Diagnosis	ICD-10-CM
Q777	Spondyloepiphyseal dysplasia	Diagnosis	ICD-10-CM
Q778	Other osteochondrodysplasia with defects of growth of tubular bones and spine	Diagnosis	ICD-10-CM
Q779	Osteochondrodysplasia with defects of growth of tubular bones and spine, unspecified	Diagnosis	ICD-10-CM
Q78	Other osteochondrodysplasias	Diagnosis	ICD-10-CM
Q780	Osteogenesis imperfecta	Diagnosis	ICD-10-CM
Q781	Polyostotic fibrous dysplasia	Diagnosis	ICD-10-CM
Q782	Osteopetrosis	Diagnosis	ICD-10-CM
Q783	Progressive diaphyseal dysplasia	Diagnosis	ICD-10-CM
Q784	Enchondromatosis	Diagnosis	ICD-10-CM
Q785	Metaphyseal dysplasia	Diagnosis	ICD-10-CM
Q786	Multiple congenital exostoses	Diagnosis	ICD-10-CM
Q788	Other specified osteochondrodysplasias	Diagnosis	ICD-10-CM
Q789	Osteochondrodysplasia, unspecified	Diagnosis	ICD-10-CM
Q79	Congenital malformations of musculoskeletal system, not elsewhere classified	Diagnosis	ICD-10-CM
Q790	Congenital diaphragmatic hernia	Diagnosis	ICD-10-CM
Q791	Other congenital malformations of diaphragm	Diagnosis	ICD-10-CM
Q792	Exomphalos	Diagnosis	ICD-10-CM
Q793	Gastroschisis	Diagnosis	ICD-10-CM
Q794	Prune belly syndrome	Diagnosis	ICD-10-CM
Q795	Other congenital malformations of abdominal wall	Diagnosis	ICD-10-CM
Q7951	Congenital hernia of bladder	Diagnosis	ICD-10-CM
Q7959	Other congenital malformations of abdominal wall	Diagnosis	ICD-10-CM
Q796	Ehlers-Danlos syndromes	Diagnosis	ICD-10-CM
Q798	Other congenital malformations of musculoskeletal system	Diagnosis	ICD-10-CM
Q799	Congenital malformation of musculoskeletal system, unsp	Diagnosis	ICD-10-CM
Q80	Congenital ichthyosis	Diagnosis	ICD-10-CM
Q800	Ichthyosis vulgaris	Diagnosis	ICD-10-CM
Q801	X-linked ichthyosis	Diagnosis	ICD-10-CM
Q802	Lamellar ichthyosis	Diagnosis	ICD-10-CM
Q803	Congenital bullous ichthyosiform erythroderma	Diagnosis	ICD-10-CM
Q804	Harlequin fetus	Diagnosis	ICD-10-CM
Q808	Other congenital ichthyosis	Diagnosis	ICD-10-CM
Q809	Congenital ichthyosis, unspecified	Diagnosis	ICD-10-CM
Q81	Epidermolysis bullosa	Diagnosis	ICD-10-CM
Q810	Epidermolysis bullosa simplex	Diagnosis	ICD-10-CM
Q811	Epidermolysis bullosa letalis	Diagnosis	ICD-10-CM
Q812	Epidermolysis bullosa dystrophica	Diagnosis	ICD-10-CM
Q818	Other epidermolysis bullosa	Diagnosis	ICD-10-CM
Q819	Epidermolysis bullosa, unspecified	Diagnosis	ICD-10-CM
Q821	Xeroderma pigmentosum	Diagnosis	ICD-10-CM
Q823	Incontinentia pigmenti	Diagnosis	ICD-10-CM
Q824	Ectodermal dysplasia (anhidrotic)	Diagnosis	ICD-10-CM
Q830	Congenital absence of breast with absent nipple	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q831	Accessory breast	Diagnosis	ICD-10-CM
Q832	Absent nipple	Diagnosis	ICD-10-CM
Q84	Other congenital malformations of integument	Diagnosis	ICD-10-CM
Q840	Congenital alopecia	Diagnosis	ICD-10-CM
Q841	Congenital morphological disturbances of hair, not elsewhere classified	Diagnosis	ICD-10-CM
Q842	Other congenital malformations of hair	Diagnosis	ICD-10-CM
Q843	Anonychia	Diagnosis	ICD-10-CM
Q844	Congenital leukonychia	Diagnosis	ICD-10-CM
Q845	Enlarged and hypertrophic nails	Diagnosis	ICD-10-CM
Q846	Other congenital malformations of nails	Diagnosis	ICD-10-CM
Q85	Phakomatoses, not elsewhere classified	Diagnosis	ICD-10-CM
Q850	Neurofibromatosis (nonmalignant)	Diagnosis	ICD-10-CM
Q8500	Neurofibromatosis, unspecified	Diagnosis	ICD-10-CM
Q8501	Neurofibromatosis, type 1	Diagnosis	ICD-10-CM
Q8502	Neurofibromatosis, type 2	Diagnosis	ICD-10-CM
Q8503	Schwannomatosis	Diagnosis	ICD-10-CM
Q8509	Other neurofibromatosis	Diagnosis	ICD-10-CM
Q851	Tuberous sclerosis	Diagnosis	ICD-10-CM
Q858	Other phakomatoses, not elsewhere classified	Diagnosis	ICD-10-CM
Q859	Phakomatosis, unspecified	Diagnosis	ICD-10-CM
Q86	Congenital malformation syndromes due to known exogenous causes, not elsewhere classified	Diagnosis	ICD-10-CM
Q860	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
Q861	Fetal hydantoin syndrome	Diagnosis	ICD-10-CM
Q862	Dysmorphism due to warfarin	Diagnosis	ICD-10-CM
Q868	Other congenital malformation syndromes due to known exogenous causes	Diagnosis	ICD-10-CM
Q87	Other specified congenital malformation syndromes affecting multiple systems	Diagnosis	ICD-10-CM
Q870	Congenital malformation syndromes predominantly affecting facial appearance	Diagnosis	ICD-10-CM
Q871	Congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q8711	Prader-Willi syndrome	Diagnosis	ICD-10-CM
Q8719	Other congenital malformation syndromes predominantly associated with short stature	Diagnosis	ICD-10-CM
Q872	Congenital malformation syndromes predominantly involving limbs	Diagnosis	ICD-10-CM
Q873	Congenital malformation syndromes involving early overgrowth	Diagnosis	ICD-10-CM
Q874	Marfan's syndrome	Diagnosis	ICD-10-CM
Q875	Other congenital malformation syndromes with other skeletal changes	Diagnosis	ICD-10-CM
Q878	Other specified congenital malformation syndromes, not elsewhere classified	Diagnosis	ICD-10-CM
Q8781	Alport syndrome	Diagnosis	ICD-10-CM
Q8782	Arterial tortuosity syndrome	Diagnosis	ICD-10-CM
Q8789	Other specified congenital malformation syndromes, not elsewhere classified	Diagnosis	ICD-10-CM
Q89	Other congenital malformations, not elsewhere classified	Diagnosis	ICD-10-CM
Q890	Congenital absence and malformations of spleen	Diagnosis	ICD-10-CM
Q8901	Asplenia (congenital)	Diagnosis	ICD-10-CM
Q8909	Congenital malformations of spleen	Diagnosis	ICD-10-CM
Q891	Congenital malformations of adrenal gland	Diagnosis	ICD-10-CM
Q892	Congenital malformations of other endocrine glands	Diagnosis	ICD-10-CM
Q893	Situs inversus	Diagnosis	ICD-10-CM
Q894	Conjoined twins	Diagnosis	ICD-10-CM
Q897	Multiple congenital malformations, not elsewhere classified	Diagnosis	ICD-10-CM
Q90	Down syndrome	Diagnosis	ICD-10-CM
Q900	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q901	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q902	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q909	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q91	Trisomy 18 and Trisomy 13	Diagnosis	ICD-10-CM
Q910	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q911	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q912	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q913	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q914	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q915	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q916	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q917	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q92	Other trisomies and partial trisomies of the autosomes, not elsewhere classified	Diagnosis	ICD-10-CM
Q920	Whole chromosome trisomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q921	Whole chromosome trisomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q922	Partial trisomy	Diagnosis	ICD-10-CM
Q925	Duplications with other complex rearrangements	Diagnosis	ICD-10-CM
Q926	Marker chromosomes	Diagnosis	ICD-10-CM
Q927	Triploidy and polyploidy	Diagnosis	ICD-10-CM
Q928	Other specified trisomies and partial trisomies of autosomes	Diagnosis	ICD-10-CM
Q93	Monosomies and deletions from the autosomes, not elsewhere classified	Diagnosis	ICD-10-CM
Q930	Whole chromosome monosomy, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q931	Whole chromosome monosomy, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q932	Chromosome replaced with ring, dicentric or isochromosome	Diagnosis	ICD-10-CM
Q933	Deletion of short arm of chromosome 4	Diagnosis	ICD-10-CM
Q934	Deletion of short arm of chromosome 5	Diagnosis	ICD-10-CM
Q935	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q9351	Angelman syndrome	Diagnosis	ICD-10-CM
Q9359	Other deletions of part of a chromosome	Diagnosis	ICD-10-CM
Q937	Deletions with other complex rearrangements	Diagnosis	ICD-10-CM
Q938	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q9381	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q9382	Williams syndrome	Diagnosis	ICD-10-CM
Q9388	Other microdeletions	Diagnosis	ICD-10-CM
Q9389	Other deletions from the autosomes	Diagnosis	ICD-10-CM
Q939	Deletion from autosomes, unspecified	Diagnosis	ICD-10-CM
Q96	Turner's syndrome	Diagnosis	ICD-10-CM
Q960	Karyotype 45, X	Diagnosis	ICD-10-CM
Q961	Karyotype 46, X iso (Xq)	Diagnosis	ICD-10-CM
Q962	Karyotype 46, X with abnormal sex chromosome, except iso (Xq)	Diagnosis	ICD-10-CM
Q963	Mosaicism, 45, X/46, XX or XY	Diagnosis	ICD-10-CM
Q964	Mosaicism, 45, X/other cell line(s) with abnormal sex chromosome	Diagnosis	ICD-10-CM
Q968	Other variants of Turner's syndrome	Diagnosis	ICD-10-CM
Q969	Turner's syndrome, unspecified	Diagnosis	ICD-10-CM
Q97	Other sex chromosome abnormalities, female phenotype, not elsewhere classified	Diagnosis	ICD-10-CM
Q970	Karyotype 47, XXX	Diagnosis	ICD-10-CM
Q971	Female with more than three X chromosomes	Diagnosis	ICD-10-CM
Q972	Mosaicism, lines with various numbers of X chromosomes	Diagnosis	ICD-10-CM
Q973	Female with 46, XY karyotype	Diagnosis	ICD-10-CM
Q978	Other specified sex chromosome abnormalities, female phenotype	Diagnosis	ICD-10-CM
Q979	Sex chromosome abnormality, female phenotype, unspecified	Diagnosis	ICD-10-CM

**Appendix G. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Neonatal Health Outcomes of Interest (HOI)**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q98	Other sex chromosome abnormalities, male phenotype, not elsewhere classified	Diagnosis	ICD-10-CM
Q980	Klinefelter syndrome karyotype 47, XXY	Diagnosis	ICD-10-CM
Q981	Klinefelter syndrome, male with more than two X chromosomes	Diagnosis	ICD-10-CM
Q983	Other male with 46, XX karyotype	Diagnosis	ICD-10-CM
Q984	Klinefelter syndrome, unspecified	Diagnosis	ICD-10-CM
Q985	Karyotype 47, XYY	Diagnosis	ICD-10-CM
Q986	Male with structurally abnormal sex chromosome	Diagnosis	ICD-10-CM
Q987	Male with sex chromosome mosaicism	Diagnosis	ICD-10-CM
Q988	Other specified sex chromosome abnormalities, male phenotype	Diagnosis	ICD-10-CM
Q989	Sex chromosome abnormality, male phenotype, unspecified	Diagnosis	ICD-10-CM
Q99	Other chromosome abnormalities, not elsewhere classified	Diagnosis	ICD-10-CM
Q990	Chimera 46, XX/46, XY	Diagnosis	ICD-10-CM
Q991	46, XX true hermaphrodite	Diagnosis	ICD-10-CM
Q992	Fragile X chromosome	Diagnosis	ICD-10-CM
Q998	Other specified chromosome abnormalities	Diagnosis	ICD-10-CM
Q999	Chromosomal abnormality, unspecified	Diagnosis	ICD-10-CM

**Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Category III (CPT Category III), Current Procedural Terminology, Fourth Edition (CPT-4), and Revenue Codes Used to Define Hierarchical COVID-19 Severity**

Code	Description	Code		
		Care Setting	Category	Code Type
<b>Hierarchical severity level 4: Acute respiratory distress syndrome, intubation, or invasive mechanical ventilation</b>				
J96	Respiratory failure, not elsewhere classified	IP*	IS*	Diagnosis ICD-10-CM
J960	Acute respiratory failure	IP*	IS*	Diagnosis ICD-10-CM
J9600	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J9601	Acute respiratory failure with hypoxia	IP*	IS*	Diagnosis ICD-10-CM
J9602	Acute respiratory failure with hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J962	Acute and chronic respiratory failure	IP*	IS*	Diagnosis ICD-10-CM
J9620	Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J9621	Acute and chronic respiratory failure with hypoxia	IP*	IS*	Diagnosis ICD-10-CM
J9622	Acute and chronic respiratory failure with hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J969	Respiratory failure, unspecified	IP*	IS*	Diagnosis ICD-10-CM
J9690	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J9691	Respiratory failure, unspecified with hypoxia	IP*	IS*	Diagnosis ICD-10-CM
J9692	Respiratory failure, unspecified with hypercapnia	IP*	IS*	Diagnosis ICD-10-CM
J80	Acute respiratory distress syndrome	IP*	IS*	Diagnosis ICD-10-CM
31500	Intubation, endotracheal, emergency procedure	IP*	IS*	Procedure CPT-4
31600	Tracheostomy, planned procedure	IP*	IS*	Procedure CPT-4
31603	Tracheostomy, emergency procedure, transtracheal	IP*	IS*	Procedure CPT-4
31605	Tracheostomy, emergency procedure, cricothyroid membrane	IP*	IS*	Procedure CPT-4
31730	Transtracheal (percutaneous) introduction of needle wire dilator/stent or indwelling tube for oxygen therapy	IP*	IS*	Procedure CPT-4
33946	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-venous	IP*	IS*	Procedure CPT-4
33947	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-arterial	IP*	IS*	Procedure CPT-4
33948	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-venous	IP*	IS*	Procedure CPT-4
33949	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-arterial	IP*	IS*	Procedure CPT-4
33951	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed)	IP*	IS*	Procedure CPT-4
33952	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (include fluoroscopic guidance, when performed)	IP*	IS*	Procedure CPT-4
33954	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	IP*	IS*	Procedure CPT-4
33956	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older	IP*	IS*	Procedure CPT-4
33958	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP*	IS*	Procedure CPT-4

**Appendix H. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Category III (CPT Category III), Current Procedural Terminology, Fourth Edition (CPT-4), and Revenue Codes Used to Define Hierarchical COVID-19 Severity**

Code	Description	Care Setting	Code	
			Category	Code Type
33962	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33964	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33966	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older	IP* IS*	Procedure	CPT-4
33984	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	IP* IS*	Procedure	CPT-4
33986	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33987	Arterial exposure with creation of graft conduit (eg, chimney graft) to facilitate arterial perfusion for ECMO/ECLS (List separately in addition to code for primary procedure)	IP* IS*	Procedure	CPT-4
33988	Insertion of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
33989	Removal of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
99504	Home visit for respirator care	IP* IS*	Procedure	CPT-4
09HN7BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
09HN8BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0B113F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B113Z4	Bypass Trachea To Cutaneous, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B114F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B114Z4	Bypass Trachea To Cutaneous, Percutaneous Endoscopic Approach	IP* IS*	Procedure	ICD-10-PCS
0B21XEZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
0B21XFZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
0BH13EZ	Insertion of Endotracheal Airway into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0BH17EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0BH18EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0CHY7BZ	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0CHY8BZ	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0DH57BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0DH58BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
4168F	Patient receiving care in the intensive care unit (ICU) and receiving mechanical ventilation, 24 hours or less (CRIT)	IP* IS*	Procedure	CPT Category II



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Code	Description	Care Setting	Code	
			Category	Code Type
5A15223	Extracorporeal Membrane Oxygenation, Continuous	IP* IS*	Procedure	CPT-4
5A1522F	Extracorporeal Oxygenation, Membrane, Central	IP* IS*	Procedure	ICD-10-PCS
5A1522G	Extracorporeal Oxygenation, Membrane, Peripheral Venous-arterial	IP* IS*	Procedure	ICD-10-PCS
5A1522H	Extracorporeal Oxygenation, Membrane, Peripheral Venous-venous	IP* IS*	Procedure	ICD-10-PCS
5A19054	Respiratory Ventilation, Single, Nonmechanical	IP* IS*	Procedure	ICD-10-PCS
5A1935Z	Respiratory Ventilation, Less than 24 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A1945Z	Respiratory Ventilation, 24-96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A1955Z	Respiratory Ventilation, Greater than 96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
94002	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, initial day	IP* IS*	Procedure	CPT-4
94003	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, each subsequent day	IP* IS*	Procedure	CPT-4
94004	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; nursing facility, per day	IP* IS*	Procedure	CPT-4
A4483	Moisture exchanger, disposable, for use with invasive mechanical ventilation	IP* IS*	Procedure	HCPCS
A4623	Tracheostomy, inner cannula	IP* IS*	Procedure	HCPCS
E0465	Home ventilator, any type, used with invasive interface, (e.g., tracheostomy tube)	IP* IS*	Procedure	HCPCS
J1325	Injection, epoprostenol, 0.5 mg	IP* IS*	Procedure	HCPCS
Z9911	Dependence on respirator [ventilator] status	IP* IS*	Diagnosis	ICD-10-CM

**Hierarchical severity level 3: Intensive care unit (ICU) admission**

200	ICU general	IP* IS*	Procedure	Revenue
201	ICU surgical	IP* IS*	Procedure	Revenue
202	ICU medical	IP* IS*	Procedure	Revenue
203	ICU pediatric	IP* IS*	Procedure	Revenue
204	ICU psychiatric stay	IP* IS*	Procedure	Revenue
206	ICU intermediate	IP* IS*	Procedure	Revenue
207	ICU burn care	IP* IS*	Procedure	Revenue
208	ICU trauma	IP* IS*	Procedure	Revenue
209	ICU other	IP* IS*	Procedure	Revenue
210	CCU	IP* IS*	Procedure	Revenue
211	CCU myo infarc	IP* IS*	Procedure	Revenue
212	CCU pulmonary	IP* IS*	Procedure	Revenue
213	CCU transplant	IP* IS*	Procedure	Revenue
214	CCU intermediate	IP* IS*	Procedure	Revenue
219	CCU other	IP* IS*	Procedure	Revenue
G0390	Trauma response team associated with hospital critical care service	IP* IS*	Procedure	HCPCS
G0509	Telehealth consultation, critical care, subsequent, physicians typically spend 50 minutes communicating with the patient and providers via telehealth	IP* IS*	Procedure	HCPCS
G0508	Telehealth consultation, critical care, initial, physicians typically spend 60 minutes communicating with the patient and providers via telehealth	IP* IS*	Procedure	HCPCS

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Code	Description	Care Setting	Code	
			Category	Code Type
0188T	Remote real-time interactive video-conferenced critical care, evaluation and management of the critically ill or critically injured patient; first 30-74 minutes	IP* IS*	Procedure	CPT Category III
0189T	Remote real-time interactive video-conferenced critical care, evaluation and management of the critically ill or critically injured patient; each additional 30 minutes (List separately in addition to code for primary service)	IP* IS*	Procedure	CPT Category III
0581F	Patient transferred directly from anesthetizing location to critical care unit (Peri2)	IP* IS*	Procedure	CPT Category II
0582F	Patient not transferred directly from anesthetizing location to critical care unit (Peri2)	IP* IS*	Procedure	CPT Category II
99171	Critical Care, Subsequent Follow-up Visit; Brief Examination, Evaluation And/or Treatment For Same Illness	IP* IS*	Procedure	CPT-4
99160	Critical Care, Initial, Including The Diagnostic And Therapeutic Services And Direction Of Care Of The Critically Ill Or Multiply Injured Or Comatose Patient, Requiring The Prolonged Presence Of The Physician; First Hour	IP* IS*	Procedure	CPT-4
99162	Critical Care, Initial, Including The Diagnostic And Therapeutic Services And Direction Of Care Of The Critically Ill Or Multiply Injured Or Comatose Patient, Requiring The Prolonged Presence Of The Physician; Each Additional 30 Minutes	IP* IS*	Procedure	CPT-4
99291	Critical care, evaluation and management of the critically ill or critically injured patient; first 30-74 minutes	IP* IS*	Procedure	CPT-4
99292	Critical care, evaluation and management of the critically ill or critically injured patient; each additional 30 minutes (List separately in addition to code for primary service)	IP* IS*	Procedure	CPT-4
G0240	Critical care service delivered by a physician, face to face; during interfacility transport of a critically ill or critically injured patient; first 30-74 minutes of active transport	IP* IS*	Procedure	HCPCS

**Hierarchical severity level 2: Pneumonia**

B9729	Other coronavirus as the cause of diseases classified elsewhere	IP* IS*	Diagnosis	ICD-10-CM
J1281	Pneumonia due to SARS-associated coronavirus	IP* IS*	Diagnosis	ICD-10-CM
J1282	Pneumonia due to coronavirus disease 2019	IP* IS*	Diagnosis	ICD-10-CM
J1289	Other viral pneumonia	IP* IS*	Diagnosis	ICD-10-CM
J129	Viral pneumonia, unspecified	IP* IS*	Diagnosis	ICD-10-CM

**Hierarchical severity level 2: Dyspnea**

R0602	Shortness of breath or trouble breathing	IP* IS*	Diagnosis	ICD-10-CM
R0600	Dyspnea, unspecified	IP* IS*	Diagnosis	ICD-10-CM
R0601	Orthopnea	IP* IS*	Diagnosis	ICD-10-CM
R0603	Acute respiratory distress	IP* IS*	Diagnosis	ICD-10-CM
R0609	Other forms of dyspnea	IP* IS*	Diagnosis	ICD-10-CM
R062	Wheezing	IP* IS*	Diagnosis	ICD-10-CM

**Hierarchical severity level 2: Hypoxia or hypoxemia**

R090	Asphyxia and hypoxemia	IP* IS*	Diagnosis	ICD-10-CM
R0902	Hypoxemia	IP* IS*	Diagnosis	ICD-10-CM
R0901	Asphyxia	IP* IS*	Diagnosis	ICD-10-CM
J9600	Acute respiratory failure, unspecified whether with hypoxia or hypercapnia	IP* IS*	Diagnosis	ICD-10-CM

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Code	Description	Care Setting	Code	
			Category	Code Type
J9601	Acute respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9620	Acute and chronic respiratory failure unspecified with hypoxia/hypercapnia	IP* IS*	Diagnosis	ICD-10-CM
J9621	Acute and chronic respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
J9611	Chronic respiratory failure with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
	Respiratory failure, unspecified, unspecified whether with hypoxia or hypercapnia	IP* IS*		ICD-10-CM
J9690			Diagnosis	
J9691	Respiratory failure, unspecified with hypoxia	IP* IS*	Diagnosis	ICD-10-CM
		IP* IS*		ICD-10-CM
J9610	Chronic respiratory failure, unspecified whether with hypoxia or hypercapnia		Diagnosis	
<b>Hierarchical severity level 2: Supplemental oxygen</b>				
0277	Medical/surgical supplies-oxygen-take home	IP* IS*	Procedure	Revenue
0412	Respiratory Services-Inhalation Services	IP* IS*	Procedure	Revenue
0600	Oxygen/Home Health-General Classification	IP* IS*	Procedure	Revenue
0601	Oxygen/Home Health-Stat Or Port Equip/Supply Or Count	IP* IS*	Procedure	Revenue
0602	Oxygen/Home Health-Stat/Equip/Under 1 Lpm	IP* IS*	Procedure	Revenue
0603	Oxygen/Home Health-Stat/Equip/Over 4 Lpm	IP* IS*	Procedure	Revenue
0604	Oxygen/Home Health-Stat/Equip/Portable Add-On	IP* IS*	Procedure	Revenue
3E097GC	Introduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
99503	Home visit for respiratory therapy care	IP* IS*	Procedure	CPT-4
A4608	Transtracheal oxygen catheter, each	IP* IS*	Procedure	HCPCS
A4615	Cannula, nasal	IP* IS*	Procedure	HCPCS
A4616	Tubing (oxygen), per foot	IP* IS*	Procedure	HCPCS
A4619	Face tent	IP* IS*	Procedure	HCPCS
A4620	Variable concentration mask	IP* IS*	Procedure	HCPCS
E0424	Stationary compressed gaseous oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0425	Stationary compressed gas system, purchase; includes regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0430	Portable gaseous oxygen system, purchase; includes regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0431	Portable gaseous oxygen system, rental; includes portable container, regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0433	Portable liquid oxygen system, rental; home liquefier used to fill portable liquid oxygen containers, includes portable containers, regulator, flowmeter, humidifier, cannula or mask and tubing, with a	IP* IS*	Procedure	HCPCS
E0434	Portable liquid oxygen system, rental; includes portable container, supply reservoir, humidifier, flowmeter, refill adaptor, contents gauge, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0435	Portable liquid oxygen system, purchase; includes portable container, supply reservoir, flowmeter, humidifier, contents gauge, cannula or mask, tubing and refill adaptor	IP* IS*	Procedure	HCPCS
E0439	Stationary liquid oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, & tubing	IP* IS*	Procedure	HCPCS

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Code	Description	Care Setting	Code	
			Category	Code Type
E0440	Stationary liquid oxygen system, purchase; includes use of reservoir, contents indicator, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
E0441	Stationary oxygen contents, gaseous, 1 month's supply = 1 unit	IP* IS*	Procedure	HCPCS
E0442	Stationary oxygen contents, liquid, 1 month's supply = 1 unit	IP* IS*	Procedure	HCPCS
E0443	Portable oxygen contents, gaseous, 1 month's supply = 1 unit	IP* IS*	Procedure	HCPCS
E0444	Portable oxygen contents, liquid, 1 month's supply = 1 unit	IP* IS*	Procedure	HCPCS
E0447	Portable oxygen contents, one month supply	IP* IS*	Procedure	HCPCS
E0455	Oxygen tent, excluding croup or pediatric tents	IP* IS*	Procedure	HCPCS
E0550	Humidifier, durable for extensive supplemental humidification during IPPB treatments or oxygen delivery	IP* IS*	Procedure	HCPCS
E0555	Humidifier, durable, glass or autoclavable plastic bottle type, for use with regulator or flowmeter	IP* IS*	Procedure	HCPCS
E0560	Humidifier, durable for supplemental humidification during IPPB treatment or oxygen delivery	IP* IS*	Procedure	HCPCS
E1352	Oxygen accessory, flow regulator capable of positive inspiratory pressure	IP* IS*	Procedure	HCPCS
E1353	Regulator	IP* IS*	Procedure	HCPCS
E1354	Oxygen accessory, wheeled cart for portable cylinder or portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1355	Stand/rack	IP* IS*	Procedure	HCPCS
E1356	Oxygen accessory, battery pack/cartridge for portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1357	Oxygen accessory, battery charger for portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1358	Oxygen accessory, dc power adapter for portable concentrator, any type, replacement only, each	IP* IS*	Procedure	HCPCS
E1390	Oxygen concentrator, single delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate	IP* IS*	Procedure	HCPCS
E1391	Oxygen concentrator, dual delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate, each	IP* IS*	Procedure	HCPCS
E1392	Portable oxygen concentrator, rental	IP* IS*	Procedure	HCPCS
E1405	Oxygen and water vapor enriching system with heated delivery	IP* IS*	Procedure	HCPCS
E1406	Oxygen and water vapor enriching system without heated delivery	IP* IS*	Procedure	HCPCS
K0738	Portable gaseous oxygen system, rental; home compressor used to fill portable oxygen cylinders; includes portable containers, regulator, flowmeter, humidifier, cannula or mask, and tubing	IP* IS*	Procedure	HCPCS
K0740	Repair or nonroutine service for oxygen equipment requiring the skill of a technician, labor component, per 15 minutes	IP* IS*	Procedure	HCPCS
Z9981	Dependence on supplemental oxygen	IP* IS*	Diagnosis	ICD-10-CM
S8120	Oxygen contents, gaseous, 1 unit equals 1 cubic foot	IP* IS*	Procedure	HCPCS
S8121	Oxygen contents, liquid, 1 unit equals 1 pound	IP* IS*	Procedure	HCPCS

**Hierarchical severity level 2: High-flow oxygen or non-invasive mechanical ventilation**

5A09357	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Continuous Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A09358	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS

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Code	Description	Care Setting	Code	
			Category	Code Type
5A0935A	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0935Z	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A09457	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Continuous Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A09458	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A0945A	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0945Z	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A09557	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Continuous Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A09558	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Intermittent Positive Airway Pressure	IP* IS*	Procedure	ICD-10-PCS
5A0955A	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, High Nasal Flow/Velocity	IP* IS*	Procedure	ICD-10-PCS
5A0955Z	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
94660	Continuous positive airway pressure ventilation (CPAP), initiation and management	IP* IS*	Procedure	CPT-4
A7027	Combination oral/nasal mask, used with continuous positive airway pressure device, each	IP* IS*	Procedure	HCPCS
A7045	Exhalation port with or without swivel used with accessories for positive airway devices, replacement only	IP* IS*	Procedure	HCPCS
A7046	Water chamber for humidifier, used with positive airway pressure device, replacement, each	IP* IS*	Procedure	HCPCS
E0466	Home ventilator, any type, used with noninvasive interface, (e.g., mask, chest shell)	IP* IS*	Procedure	HCPCS
E0467	Home ventilator, multi-function respiratory device, also performs any or all of the additional functions of oxygen concentration, drug nebulization, aspiration, and cough stimulation, includes all accessories, components and supplies for all functions	IP* IS*	Procedure	HCPCS
E0470	Respiratory assist device, bi-level pressure capability, without backup rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
E0471	Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
E0472	Respiratory assist device, bi-level pressure capability, with backup rate feature, used with invasive interface, e.g., tracheostomy tube (intermittent assist device with continuous positive airway pressure device)	IP* IS*	Procedure	HCPCS
5A19054	Respiratory Ventilation, Single, Nonmechanical	IP* IS*	Procedure	ICD-10-PCS
99504	Home visit for respirator care	IP* IS*	Procedure	CPT-4

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Code	Description	Code		
		Care Setting	Category	Code Type
<b>Supplemental oxygen</b>				
0277	Medical/surgical supplies-oxygen-take home	Any	Procedure	Revenue
0412	Respiratory Services-Inhalation Services	Any	Procedure	Revenue
0600	Oxygen/Home Health-General Classification	Any	Procedure	Revenue
0601	Oxygen/Home Health-Stat Or Port Equip/Supply Or Count	Any	Procedure	Revenue
0602	Oxygen/Home Health-Stat/Equip/Under 1 Lpm	Any	Procedure	Revenue
0603	Oxygen/Home Health-Stat/Equip/Over 4 Lpm	Any	Procedure	Revenue
0604	Oxygen/Home Health-Stat/Equip/Portable Add-On	Any	Procedure	Revenue
3E097GC	Introduction Of Other Therapeutic Substance Into Nose, Via Natural Or Artificial Opening	Any	Procedure	ICD-10-PCS
99503	Home visit for respiratory therapy care	Any	Procedure	CPT-4
A4608	Transtracheal oxygen catheter, each	Any	Procedure	HCPCS
A4615	Cannula, nasal	Any	Procedure	HCPCS
A4616	Tubing (oxygen), per foot	Any	Procedure	HCPCS
A4619	Face tent	Any	Procedure	HCPCS
A4620	Variable concentration mask	Any	Procedure	HCPCS
E0424	Stationary compressed gaseous oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	Any	Procedure	HCPCS
E0425	Stationary compressed gas system, purchase; includes regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	Any	Procedure	HCPCS
E0430	Portable gaseous oxygen system, purchase; includes regulator, flowmeter, humidifier, cannula or mask, and tubing	Any	Procedure	HCPCS
E0431	Portable gaseous oxygen system, rental; includes portable container, regulator, flowmeter, humidifier, cannula or mask, and tubing	Any	Procedure	HCPCS
E0433	Portable liquid oxygen system, rental; home liquefier used to fill portable liquid oxygen containers, includes portable containers, regulator, flowmeter, humidifier, cannula or mask and tubing, with or	Any	Procedure	HCPCS
E0434	Portable liquid oxygen system, rental; includes portable container, supply reservoir, humidifier, flowmeter, refill adaptor, contents gauge, cannula or mask, and tubing	Any	Procedure	HCPCS
E0435	Portable liquid oxygen system, purchase; includes portable container, supply reservoir, flowmeter, humidifier, contents gauge, cannula or mask, tubing and refill adaptor	Any	Procedure	HCPCS
E0439	Stationary liquid oxygen system, rental; includes container, contents, regulator, flowmeter, humidifier, nebulizer, cannula or mask, & tubing	Any	Procedure	HCPCS
E0440	Stationary liquid oxygen system, purchase; includes use of reservoir, contents indicator, regulator, flowmeter, humidifier, nebulizer, cannula or mask, and tubing	Any	Procedure	HCPCS
E0441	Stationary oxygen contents, gaseous, 1 month's supply = 1 unit	Any	Procedure	HCPCS
E0442	Stationary oxygen contents, liquid, 1 month's supply = 1 unit	Any	Procedure	HCPCS
E0443	Portable oxygen contents, gaseous, 1 month's supply = 1 unit	Any	Procedure	HCPCS
E0444	Portable oxygen contents, liquid, 1 month's supply = 1 unit	Any	Procedure	HCPCS
E0447	Portable oxygen contents, one month supply	Any	Procedure	HCPCS
E0455	Oxygen tent, excluding croup or pediatric tents	Any	Procedure	HCPCS
E0550	Humidifier, durable for extensive supplemental humidification during ippb treatments or oxygen delivery	Any	Procedure	HCPCS
E0555	Humidifier, durable, glass or autoclavable plastic bottle type, for use with regulator or flowmeter	Any	Procedure	HCPCS

**Appendix I. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), Current Procedural Terminology, Fourth Edition (CPT-4), and Revenue Codes Used to Define Oxygenation Endpoints**

Code	Description	Care Setting	Code	
			Category	Code Type
E0560	Humidifier, durable for supplemental humidification during ippb treatment or oxygen delivery	Any	Procedure	HCPCS
E1352	Oxygen accessory, flow regulator capable of positive inspiratory pressure	Any	Procedure	HCPCS
E1353	Regulator	Any	Procedure	HCPCS
E1354	Oxygen accessory, wheeled cart for portable cylinder or portable concentrator, any type, replacement only, each	Any	Procedure	HCPCS
E1355	Stand/rack	Any	Procedure	HCPCS
E1356	Oxygen accessory, battery pack/cartridge for portable concentrator, any type, replacement only, each	Any	Procedure	HCPCS
E1357	Oxygen accessory, battery charger for portable concentrator, any type, replacement only, each	Any	Procedure	HCPCS
E1358	Oxygen accessory, dc power adapter for portable concentrator, any type, replacement only, each	Any	Procedure	HCPCS
E1390	Oxygen concentrator, single delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate	Any	Procedure	HCPCS
E1391	Oxygen concentrator, dual delivery port, capable of delivering 85 percent or greater oxygen concentration at the prescribed flow rate, each	Any	Procedure	HCPCS
E1392	Portable oxygen concentrator, rental	Any	Procedure	HCPCS
E1405	Oxygen and water vapor enriching system with heated delivery	Any	Procedure	HCPCS
E1406	Oxygen and water vapor enriching system without heated delivery	Any	Procedure	HCPCS
K0738	Portable gaseous oxygen system, rental; home compressor used to fill portable oxygen cylinders; includes portable containers, regulator, flowmeter, humidifier, cannula or mask, and tubing	Any	Procedure	HCPCS
K0740	Repair or nonroutine service for oxygen equipment requiring the skill of a technician, labor component, per 15 minutes	Any	Procedure	HCPCS
Z9981	Dependence on supplemental oxygen	Any	Diagnosis	ICD-10-CM
S8120	Oxygen contents, gaseous, 1 unit equals 1 cubic foot	Any	Procedure	HCPCS
S8121	Oxygen contents, liquid, 1 unit equals 1 pound	Any	Procedure	HCPCS

**High-flow oxygen or non-invasive mechanical ventilation**

5A09357	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Continuous Positive Airway Pressure	Any	Procedure	ICD-10-PCS
5A09358	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, Intermittent Positive Airway Pressure	Any	Procedure	ICD-10-PCS
5A0935A	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours, High Nasal Flow/Velocity	Any	Procedure	ICD-10-PCS
5A0935Z	Assistance with Respiratory Ventilation, Less than 24 Consecutive Hours	Any	Procedure	ICD-10-PCS
5A09457	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Continuous Positive Airway Pressure	Any	Procedure	ICD-10-PCS
5A09458	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, Intermittent Positive Airway Pressure	Any	Procedure	ICD-10-PCS
5A0945A	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours, High Nasal Flow/Velocity	Any	Procedure	ICD-10-PCS
5A0945Z	Assistance with Respiratory Ventilation, 24-96 Consecutive Hours	Any	Procedure	ICD-10-PCS
5A09557	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Continuous Positive Airway Pressure	Any	Procedure	ICD-10-PCS

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Code	Description	Care Setting	Code	
			Category	Code Type
5A09558	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, Intermittent Positive Airway Pressure	Any	Procedure	ICD-10-PCS
5A0955A	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours, High Nasal Flow/Velocitv	Any	Procedure	ICD-10-PCS
5A0955Z	Assistance with Respiratory Ventilation, Greater than 96 Consecutive Hours	Any	Procedure	ICD-10-PCS
94660	Continuous positive airway pressure ventilation (CPAP), initiation and management	Any	Procedure	CPT-4
A7027	Combination oral/nasal mask, used with continuous positive airway pressure device, each	Any	Procedure	HCPCS
A7045	Exhalation port with or without swivel used with accessories for positive airway devices, replacement only	Any	Procedure	HCPCS
A7046	Water chamber for humidifier, used with positive airway pressure device, replacement, each	Any	Procedure	HCPCS
E0466	Home ventilator, any type, used with noninvasive interface, (e.g., mask, chest shell)	Any	Procedure	HCPCS
E0467	Home ventilator, multi-function respiratory device, also performs any or all of the additional functions of oxygen concentration, drug nebulization, aspiration, and cough stimulation, includes all accessories, components and supplies for all functions	Any	Procedure	HCPCS
E0470	Respiratory assist device, bi-level pressure capability, without backup rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	Any	Procedure	HCPCS
E0471	Respiratory assist device, bi-level pressure capability, with back-up rate feature, used with noninvasive interface, e.g., nasal or facial mask (intermittent assist device with continuous positive airway pressure device)	Any	Procedure	HCPCS
E0472	Respiratory assist device, bi-level pressure capability, with backup rate feature, used with invasive interface, e.g., tracheostomy tube (intermittent assist device with continuous positive airway pressure device)	Any	Procedure	HCPCS
5A19054	Respiratory Ventilation, Single, Nonmechanical	Any	Procedure	ICD-10-PCS
99504	Home visit for respirator care	Any	Procedure	CPT-4
<b>Invasive mechanical ventilation or extracorporeal membrane oxygenation (ECMO)</b>				
31500	Intubation, endotracheal, emergency procedure	IP* IS*	Procedure	CPT-4
31600	Tracheostomy, planned procedure	IP* IS*	Procedure	CPT-4
31603	Tracheostomy, emergency procedure, transtracheal	IP* IS*	Procedure	CPT-4
31605	Tracheostomy, emergency procedure, cricothyroid membrane	IP* IS*	Procedure	CPT-4
31730	Transtracheal (percutaneous) introduction of needle wire dilator/stent or indwelling tube for oxygen therapy	IP* IS*	Procedure	CPT-4
33946	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-venous	IP* IS*	Procedure	CPT-4
33947	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; initiation, veno-arterial	IP* IS*	Procedure	CPT-4
33948	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-venous	IP* IS*	Procedure	CPT-4



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Code	Description	Care Setting	Code	
			Category	Code Type
33949	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; daily management, each day, veno-arterial	IP* IS*	Procedure	CPT-4
33951	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, birth through 5 years of age (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33952	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (include fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33954	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e), open, 6 years and older	IP* IS*	Procedure	CPT-4
33956	Extracorporeal membrane oxygenation (ecmo)/ extracorporeal life support (ecls) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older	IP* IS*	Procedure	CPT-4
33958	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33962	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), open, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33964	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33966	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e) percutaneous, 6 years and older	IP* IS*	Procedure	CPT-4
33984	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e) open, 6 years and older	IP* IS*	Procedure	CPT-4
33986	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e), percutaneous, 6 years and older (includes fluoroscopic guidance, when performed)	IP* IS*	Procedure	CPT-4
33987	Arterial exposure with creation of graft conduit (eg, chimney graft) to facilitate arterial perfusion for ECMO/ECLS (List separately in addition to code for primary procedure)	IP* IS*	Procedure	CPT-4
33988	Insertion of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
33989	Removal of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	IP* IS*	Procedure	CPT-4
99504	Home visit for respirator care	IP* IS*	Procedure	CPT-4
09HN7BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS

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Code	Description	Care Setting	Code	
			Category	Code Type
09HN8BZ	Insertion of Airway into Nasopharynx, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0B113F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B113Z4	Bypass Trachea To Cutaneous, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B114F4	Insertion Of Endotracheal Airway Into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0B114Z4	Bypass Trachea To Cutaneous, Percutaneous Endoscopic Approach	IP* IS*	Procedure	ICD-10-PCS
0B21XEZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
0B21XFZ	Change Endotracheal Airway In Trachea, External Approach	IP* IS*	Procedure	ICD-10-PCS
0BH13EZ	Insertion of Endotracheal Airway into Trachea, Percutaneous Approach	IP* IS*	Procedure	ICD-10-PCS
0BH17EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0BH18EZ	Insertion of Endotracheal Airway into Trachea, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0CHY7BZ	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0CHY8BZ	Insertion of Airway into Mouth and Throat, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
0DH57BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening	IP* IS*	Procedure	ICD-10-PCS
0DH58BZ	Insertion of Airway into Esophagus, Via Natural or Artificial Opening Endoscopic	IP* IS*	Procedure	ICD-10-PCS
4168F	Patient receiving care in the intensive care unit (ICU) and receiving mechanical ventilation, 24 hours or less (CRIT)	IP* IS*	Procedure	CPT Category II
5A15223	Extracorporeal Membrane Oxygenation, Continuous	IP* IS*	Procedure	CPT-4
5A1522F	Extracorporeal Oxygenation, Membrane, Central	IP* IS*	Procedure	ICD-10-PCS
5A1522G	Extracorporeal Oxygenation, Membrane, Peripheral Venous-arterial	IP* IS*	Procedure	ICD-10-PCS
5A1522H	Extracorporeal Oxygenation, Membrane, Peripheral Venous-venous	IP* IS*	Procedure	ICD-10-PCS
5A19054	Respiratory Ventilation, Single, Nonmechanical	IP* IS*	Procedure	ICD-10-PCS
5A1935Z	Respiratory Ventilation, Less than 24 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A1945Z	Respiratory Ventilation, 24-96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
5A1955Z	Respiratory Ventilation, Greater than 96 Consecutive Hours	IP* IS*	Procedure	ICD-10-PCS
94002	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, initial day	IP* IS*	Procedure	CPT-4
94003	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; hospital inpatient/observation, each subsequent day	IP* IS*	Procedure	CPT-4
94004	Ventilation assist and management, initiation of pressure or volume preset ventilators for assisted or controlled breathing; nursing facility, per day	IP* IS*	Procedure	CPT-4
A4483	Moisture exchanger, disposable, for use with invasive mechanical ventilation	IP* IS*	Procedure	HCPCS
A4623	Tracheostomy, inner cannula	IP* IS*	Procedure	HCPCS
E0465	Home ventilator, any type, used with invasive interface, (e.g., tracheostomy tube)	IP* IS*	Procedure	HCPCS
J1325	Injection, epoprostenol, 0.5 mg	IP* IS*	Procedure	HCPCS
Z9911	Dependence on respirator [ventilator] status	IP* IS*	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Cancer</b>			
C00	Malignant neoplasm of lip	Diagnosis	ICD-10-CM
C000	Malignant neoplasm of external upper lip	Diagnosis	ICD-10-CM
C001	Malignant neoplasm of external lower lip	Diagnosis	ICD-10-CM
C002	Malignant neoplasm of external lip, unspecified	Diagnosis	ICD-10-CM
C003	Malignant neoplasm of upper lip, inner aspect	Diagnosis	ICD-10-CM
C004	Malignant neoplasm of lower lip, inner aspect	Diagnosis	ICD-10-CM
C005	Malignant neoplasm of lip, unspecified, inner aspect	Diagnosis	ICD-10-CM
C006	Malignant neoplasm of commissure of lip, unspecified	Diagnosis	ICD-10-CM
C008	Malignant neoplasm of overlapping sites of lip	Diagnosis	ICD-10-CM
C009	Malignant neoplasm of lip, unspecified	Diagnosis	ICD-10-CM
C01	Malignant neoplasm of base of tongue	Diagnosis	ICD-10-CM
C02	Malignant neoplasm of other and unspecified parts of tongue	Diagnosis	ICD-10-CM
C020	Malignant neoplasm of dorsal surface of tongue	Diagnosis	ICD-10-CM
C021	Malignant neoplasm of border of tongue	Diagnosis	ICD-10-CM
C022	Malignant neoplasm of ventral surface of tongue	Diagnosis	ICD-10-CM
C023	Malignant neoplasm of anterior two-thirds of tongue, part unspecified	Diagnosis	ICD-10-CM
C024	Malignant neoplasm of lingual tonsil	Diagnosis	ICD-10-CM
C028	Malignant neoplasm of overlapping sites of tongue	Diagnosis	ICD-10-CM
C029	Malignant neoplasm of tongue, unspecified	Diagnosis	ICD-10-CM
C03	Malignant neoplasm of gum	Diagnosis	ICD-10-CM
C030	Malignant neoplasm of upper gum	Diagnosis	ICD-10-CM
C031	Malignant neoplasm of lower gum	Diagnosis	ICD-10-CM
C039	Malignant neoplasm of gum, unspecified	Diagnosis	ICD-10-CM
C04	Malignant neoplasm of floor of mouth	Diagnosis	ICD-10-CM
C040	Malignant neoplasm of anterior floor of mouth	Diagnosis	ICD-10-CM
C041	Malignant neoplasm of lateral floor of mouth	Diagnosis	ICD-10-CM
C048	Malignant neoplasm of overlapping sites of floor of mouth	Diagnosis	ICD-10-CM
C049	Malignant neoplasm of floor of mouth, unspecified	Diagnosis	ICD-10-CM
C05	Malignant neoplasm of palate	Diagnosis	ICD-10-CM
C050	Malignant neoplasm of hard palate	Diagnosis	ICD-10-CM
C051	Malignant neoplasm of soft palate	Diagnosis	ICD-10-CM
C052	Malignant neoplasm of uvula	Diagnosis	ICD-10-CM
C058	Malignant neoplasm of overlapping sites of palate	Diagnosis	ICD-10-CM
C059	Malignant neoplasm of palate, unspecified	Diagnosis	ICD-10-CM
C06	Malignant neoplasm of other and unspecified parts of mouth	Diagnosis	ICD-10-CM
C060	Malignant neoplasm of cheek mucosa	Diagnosis	ICD-10-CM
C061	Malignant neoplasm of vestibule of mouth	Diagnosis	ICD-10-CM
C062	Malignant neoplasm of retromolar area	Diagnosis	ICD-10-CM
C068	Malignant neoplasm of overlapping sites of other and unspecified parts of mouth	Diagnosis	ICD-10-CM
C0680	Malignant neoplasm of overlapping sites of unspecified parts of mouth	Diagnosis	ICD-10-CM
C0689	Malignant neoplasm of overlapping sites of other parts of mouth	Diagnosis	ICD-10-CM
C069	Malignant neoplasm of mouth, unspecified	Diagnosis	ICD-10-CM
C07	Malignant neoplasm of parotid gland	Diagnosis	ICD-10-CM
C08	Malignant neoplasm of other and unspecified major salivary glands	Diagnosis	ICD-10-CM
C080	Malignant neoplasm of submandibular gland	Diagnosis	ICD-10-CM
C081	Malignant neoplasm of sublingual gland	Diagnosis	ICD-10-CM
C089	Malignant neoplasm of major salivary gland, unspecified	Diagnosis	ICD-10-CM
C09	Malignant neoplasm of tonsil	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C090	Malignant neoplasm of tonsillar fossa	Diagnosis	ICD-10-CM
C091	Malignant neoplasm of tonsillar pillar (anterior) (posterior)	Diagnosis	ICD-10-CM
C098	Malignant neoplasm of overlapping sites of tonsil	Diagnosis	ICD-10-CM
C099	Malignant neoplasm of tonsil, unspecified	Diagnosis	ICD-10-CM
C10	Malignant neoplasm of oropharynx	Diagnosis	ICD-10-CM
C100	Malignant neoplasm of vallecula	Diagnosis	ICD-10-CM
C101	Malignant neoplasm of anterior surface of epiglottis	Diagnosis	ICD-10-CM
C102	Malignant neoplasm of lateral wall of oropharynx	Diagnosis	ICD-10-CM
C103	Malignant neoplasm of posterior wall of oropharynx	Diagnosis	ICD-10-CM
C104	Malignant neoplasm of branchial cleft	Diagnosis	ICD-10-CM
C108	Malignant neoplasm of overlapping sites of oropharynx	Diagnosis	ICD-10-CM
C109	Malignant neoplasm of oropharynx, unspecified	Diagnosis	ICD-10-CM
C11	Malignant neoplasm of nasopharynx	Diagnosis	ICD-10-CM
C110	Malignant neoplasm of superior wall of nasopharynx	Diagnosis	ICD-10-CM
C111	Malignant neoplasm of posterior wall of nasopharynx	Diagnosis	ICD-10-CM
C112	Malignant neoplasm of lateral wall of nasopharynx	Diagnosis	ICD-10-CM
C113	Malignant neoplasm of anterior wall of nasopharynx	Diagnosis	ICD-10-CM
C118	Malignant neoplasm of overlapping sites of nasopharynx	Diagnosis	ICD-10-CM
C119	Malignant neoplasm of nasopharynx, unspecified	Diagnosis	ICD-10-CM
C12	Malignant neoplasm of pyriform sinus	Diagnosis	ICD-10-CM
C13	Malignant neoplasm of hypopharynx	Diagnosis	ICD-10-CM
C130	Malignant neoplasm of postcricoid region	Diagnosis	ICD-10-CM
C131	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	Diagnosis	ICD-10-CM
C132	Malignant neoplasm of posterior wall of hypopharynx	Diagnosis	ICD-10-CM
C138	Malignant neoplasm of overlapping sites of hypopharynx	Diagnosis	ICD-10-CM
C139	Malignant neoplasm of hypopharynx, unspecified	Diagnosis	ICD-10-CM
C14	Malignant neoplasm of other and ill-defined sites in the lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
C140	Malignant neoplasm of pharynx, unspecified	Diagnosis	ICD-10-CM
C142	Malignant neoplasm of Waldeyer's ring	Diagnosis	ICD-10-CM
C148	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx	Diagnosis	ICD-10-CM
C15	Malignant neoplasm of esophagus	Diagnosis	ICD-10-CM
C153	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-10-CM
C154	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-10-CM
C155	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-10-CM
C158	Malignant neoplasm of overlapping sites of esophagus	Diagnosis	ICD-10-CM
C159	Malignant neoplasm of esophagus, unspecified	Diagnosis	ICD-10-CM
C16	Malignant neoplasm of stomach	Diagnosis	ICD-10-CM
C160	Malignant neoplasm of cardia	Diagnosis	ICD-10-CM
C161	Malignant neoplasm of fundus of stomach	Diagnosis	ICD-10-CM
C162	Malignant neoplasm of body of stomach	Diagnosis	ICD-10-CM
C163	Malignant neoplasm of pyloric antrum	Diagnosis	ICD-10-CM
C164	Malignant neoplasm of pylorus	Diagnosis	ICD-10-CM
C165	Malignant neoplasm of lesser curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C166	Malignant neoplasm of greater curvature of stomach, unspecified	Diagnosis	ICD-10-CM
C168	Malignant neoplasm of overlapping sites of stomach	Diagnosis	ICD-10-CM
C169	Malignant neoplasm of stomach, unspecified	Diagnosis	ICD-10-CM
C17	Malignant neoplasm of small intestine	Diagnosis	ICD-10-CM
C170	Malignant neoplasm of duodenum	Diagnosis	ICD-10-CM
C171	Malignant neoplasm of jejunum	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C172	Malignant neoplasm of ileum	Diagnosis	ICD-10-CM
C173	Meckel's diverticulum, malignant	Diagnosis	ICD-10-CM
C178	Malignant neoplasm of overlapping sites of small intestine	Diagnosis	ICD-10-CM
C179	Malignant neoplasm of small intestine, unspecified	Diagnosis	ICD-10-CM
C18	Malignant neoplasm of colon	Diagnosis	ICD-10-CM
C180	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C181	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C182	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C183	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C184	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C185	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C186	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C187	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C188	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C189	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C21	Malignant neoplasm of anus and anal canal	Diagnosis	ICD-10-CM
C210	Malignant neoplasm of anus, unspecified	Diagnosis	ICD-10-CM
C211	Malignant neoplasm of anal canal	Diagnosis	ICD-10-CM
C212	Malignant neoplasm of cloacogenic zone	Diagnosis	ICD-10-CM
C218	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM
C22	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-10-CM
C220	Liver cell carcinoma	Diagnosis	ICD-10-CM
C221	Intrahepatic bile duct carcinoma	Diagnosis	ICD-10-CM
C222	Hepatoblastoma	Diagnosis	ICD-10-CM
C223	Angiosarcoma of liver	Diagnosis	ICD-10-CM
C224	Other sarcomas of liver	Diagnosis	ICD-10-CM
C227	Other specified carcinomas of liver	Diagnosis	ICD-10-CM
C228	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
C229	Malignant neoplasm of liver, not specified as primary or secondary	Diagnosis	ICD-10-CM
C23	Malignant neoplasm of gallbladder	Diagnosis	ICD-10-CM
C24	Malignant neoplasm of other and unspecified parts of biliary tract	Diagnosis	ICD-10-CM
C240	Malignant neoplasm of extrahepatic bile duct	Diagnosis	ICD-10-CM
C241	Malignant neoplasm of ampulla of Vater	Diagnosis	ICD-10-CM
C248	Malignant neoplasm of overlapping sites of biliary tract	Diagnosis	ICD-10-CM
C249	Malignant neoplasm of biliary tract, unspecified	Diagnosis	ICD-10-CM
C25	Malignant neoplasm of pancreas	Diagnosis	ICD-10-CM
C250	Malignant neoplasm of head of pancreas	Diagnosis	ICD-10-CM
C251	Malignant neoplasm of body of pancreas	Diagnosis	ICD-10-CM
C252	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-10-CM
C253	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-10-CM
C254	Malignant neoplasm of endocrine pancreas	Diagnosis	ICD-10-CM
C257	Malignant neoplasm of other parts of pancreas	Diagnosis	ICD-10-CM
C258	Malignant neoplasm of overlapping sites of pancreas	Diagnosis	ICD-10-CM
C259	Malignant neoplasm of pancreas, unspecified	Diagnosis	ICD-10-CM
C26	Malignant neoplasm of other and ill-defined digestive organs	Diagnosis	ICD-10-CM
C260	Malignant neoplasm of intestinal tract, part unspecified	Diagnosis	ICD-10-CM
C261	Malignant neoplasm of spleen	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C269	Malignant neoplasm of ill-defined sites within the digestive system	Diagnosis	ICD-10-CM
C30	Malignant neoplasm of nasal cavity and middle ear	Diagnosis	ICD-10-CM
C300	Malignant neoplasm of nasal cavity	Diagnosis	ICD-10-CM
C301	Malignant neoplasm of middle ear	Diagnosis	ICD-10-CM
C31	Malignant neoplasm of accessory sinuses	Diagnosis	ICD-10-CM
C310	Malignant neoplasm of maxillary sinus	Diagnosis	ICD-10-CM
C311	Malignant neoplasm of ethmoidal sinus	Diagnosis	ICD-10-CM
C312	Malignant neoplasm of frontal sinus	Diagnosis	ICD-10-CM
C313	Malignant neoplasm of sphenoid sinus	Diagnosis	ICD-10-CM
C318	Malignant neoplasm of overlapping sites of accessory sinuses	Diagnosis	ICD-10-CM
C319	Malignant neoplasm of accessory sinus, unspecified	Diagnosis	ICD-10-CM
C32	Malignant neoplasm of larynx	Diagnosis	ICD-10-CM
C320	Malignant neoplasm of glottis	Diagnosis	ICD-10-CM
C321	Malignant neoplasm of supraglottis	Diagnosis	ICD-10-CM
C322	Malignant neoplasm of subglottis	Diagnosis	ICD-10-CM
C323	Malignant neoplasm of laryngeal cartilage	Diagnosis	ICD-10-CM
C328	Malignant neoplasm of overlapping sites of larynx	Diagnosis	ICD-10-CM
C329	Malignant neoplasm of larynx, unspecified	Diagnosis	ICD-10-CM
C33	Malignant neoplasm of trachea	Diagnosis	ICD-10-CM
C34	Malignant neoplasm of bronchus and lung	Diagnosis	ICD-10-CM
C340	Malignant neoplasm of main bronchus	Diagnosis	ICD-10-CM
C3400	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C3401	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C3402	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C341	Malignant neoplasm of upper lobe, bronchus or lung	Diagnosis	ICD-10-CM
C3410	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C3411	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C3412	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C342	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C343	Malignant neoplasm of lower lobe, bronchus or lung	Diagnosis	ICD-10-CM
C3430	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C3431	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C3432	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C348	Malignant neoplasm of overlapping sites of bronchus and lung	Diagnosis	ICD-10-CM
C3480	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C3481	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C3482	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C349	Malignant neoplasm of unspecified part of bronchus or lung	Diagnosis	ICD-10-CM
C3490	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C3491	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C3492	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
C37	Malignant neoplasm of thymus	Diagnosis	ICD-10-CM
C38	Malignant neoplasm of heart, mediastinum and pleura	Diagnosis	ICD-10-CM
C380	Malignant neoplasm of heart	Diagnosis	ICD-10-CM
C381	Malignant neoplasm of anterior mediastinum	Diagnosis	ICD-10-CM
C382	Malignant neoplasm of posterior mediastinum	Diagnosis	ICD-10-CM
C383	Malignant neoplasm of mediastinum, part unspecified	Diagnosis	ICD-10-CM
C384	Malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C388	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C39	Malignant neoplasm of other and ill-defined sites in the respiratory system and intrathoracic organs	Diagnosis	ICD-10-CM
C390	Malignant neoplasm of upper respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C399	Malignant neoplasm of lower respiratory tract, part unspecified	Diagnosis	ICD-10-CM
C40	Malignant neoplasm of bone and articular cartilage of limbs	Diagnosis	ICD-10-CM
C400	Malignant neoplasm of scapula and long bones of upper limb	Diagnosis	ICD-10-CM
C4000	Malignant neoplasm of scapula and long bones of unspecified upper limb	Diagnosis	ICD-10-CM
C4001	Malignant neoplasm of scapula and long bones of right upper limb	Diagnosis	ICD-10-CM
C4002	Malignant neoplasm of scapula and long bones of left upper limb	Diagnosis	ICD-10-CM
C401	Malignant neoplasm of short bones of upper limb	Diagnosis	ICD-10-CM
C4010	Malignant neoplasm of short bones of unspecified upper limb	Diagnosis	ICD-10-CM
C4011	Malignant neoplasm of short bones of right upper limb	Diagnosis	ICD-10-CM
C4012	Malignant neoplasm of short bones of left upper limb	Diagnosis	ICD-10-CM
C402	Malignant neoplasm of long bones of lower limb	Diagnosis	ICD-10-CM
C4020	Malignant neoplasm of long bones of unspecified lower limb	Diagnosis	ICD-10-CM
C4021	Malignant neoplasm of long bones of right lower limb	Diagnosis	ICD-10-CM
C4022	Malignant neoplasm of long bones of left lower limb	Diagnosis	ICD-10-CM
C403	Malignant neoplasm of short bones of lower limb	Diagnosis	ICD-10-CM
C4030	Malignant neoplasm of short bones of unspecified lower limb	Diagnosis	ICD-10-CM
C4031	Malignant neoplasm of short bones of right lower limb	Diagnosis	ICD-10-CM
C4032	Malignant neoplasm of short bones of left lower limb	Diagnosis	ICD-10-CM
C408	Malignant neoplasm of overlapping sites of bone and articular cartilage of limb	Diagnosis	ICD-10-CM
C4080	Malignant neoplasm of overlapping sites of bone and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C4081	Malignant neoplasm of overlapping sites of bone and articular cartilage of right limb	Diagnosis	ICD-10-CM
C4082	Malignant neoplasm of overlapping sites of bone and articular cartilage of left limb	Diagnosis	ICD-10-CM
C409	Malignant neoplasm of unspecified bones and articular cartilage of limb	Diagnosis	ICD-10-CM
C4090	Malignant neoplasm of unspecified bones and articular cartilage of unspecified limb	Diagnosis	ICD-10-CM
C4091	Malignant neoplasm of unspecified bones and articular cartilage of right limb	Diagnosis	ICD-10-CM
C4092	Malignant neoplasm of unspecified bones and articular cartilage of left limb	Diagnosis	ICD-10-CM
C41	Malignant neoplasm of bone and articular cartilage of other and unspecified sites	Diagnosis	ICD-10-CM
C410	Malignant neoplasm of bones of skull and face	Diagnosis	ICD-10-CM
C411	Malignant neoplasm of mandible	Diagnosis	ICD-10-CM
C412	Malignant neoplasm of vertebral column	Diagnosis	ICD-10-CM
C413	Malignant neoplasm of ribs, sternum and clavicle	Diagnosis	ICD-10-CM
C414	Malignant neoplasm of pelvic bones, sacrum and coccyx	Diagnosis	ICD-10-CM
C419	Malignant neoplasm of bone and articular cartilage, unspecified	Diagnosis	ICD-10-CM
C43	Malignant melanoma of skin	Diagnosis	ICD-10-CM
C430	Malignant melanoma of lip	Diagnosis	ICD-10-CM
C431	Malignant melanoma of eyelid, including canthus	Diagnosis	ICD-10-CM
C4310	Malignant melanoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C4311	Malignant melanoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C43111	Malignant melanoma of right upper eyelid, including canthus	Diagnosis	ICD-10-CM
C43112	Malignant melanoma of right lower eyelid, including canthus	Diagnosis	ICD-10-CM
C4312	Malignant melanoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C43121	Malignant melanoma of left upper eyelid, including canthus	Diagnosis	ICD-10-CM
C43122	Malignant melanoma of left lower eyelid, including canthus	Diagnosis	ICD-10-CM
C432	Malignant melanoma of ear and external auricular canal	Diagnosis	ICD-10-CM
C4320	Malignant melanoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C4321	Malignant melanoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C4322	Malignant melanoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C433	Malignant melanoma of other and unspecified parts of face	Diagnosis	ICD-10-CM
C4330	Malignant melanoma of unspecified part of face	Diagnosis	ICD-10-CM
C4331	Malignant melanoma of nose	Diagnosis	ICD-10-CM
C4339	Malignant melanoma of other parts of face	Diagnosis	ICD-10-CM
C434	Malignant melanoma of scalp and neck	Diagnosis	ICD-10-CM
C435	Malignant melanoma of trunk	Diagnosis	ICD-10-CM
C4351	Malignant melanoma of anal skin	Diagnosis	ICD-10-CM
C4352	Malignant melanoma of skin of breast	Diagnosis	ICD-10-CM
C4359	Malignant melanoma of other part of trunk	Diagnosis	ICD-10-CM
C436	Malignant melanoma of upper limb, including shoulder	Diagnosis	ICD-10-CM
C4360	Malignant melanoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C4361	Malignant melanoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C4362	Malignant melanoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C437	Malignant melanoma of lower limb, including hip	Diagnosis	ICD-10-CM
C4370	Malignant melanoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C4371	Malignant melanoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C4372	Malignant melanoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C438	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C439	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
C45	Mesothelioma	Diagnosis	ICD-10-CM
C450	Mesothelioma of pleura	Diagnosis	ICD-10-CM
C451	Mesothelioma of peritoneum	Diagnosis	ICD-10-CM
C452	Mesothelioma of pericardium	Diagnosis	ICD-10-CM
C457	Mesothelioma of other sites	Diagnosis	ICD-10-CM
C459	Mesothelioma, unspecified	Diagnosis	ICD-10-CM
C46	Kaposi's sarcoma	Diagnosis	ICD-10-CM
C460	Kaposi's sarcoma of skin	Diagnosis	ICD-10-CM
C461	Kaposi's sarcoma of soft tissue	Diagnosis	ICD-10-CM
C462	Kaposi's sarcoma of palate	Diagnosis	ICD-10-CM
C463	Kaposi's sarcoma of lymph nodes	Diagnosis	ICD-10-CM
C464	Kaposi's sarcoma of gastrointestinal sites	Diagnosis	ICD-10-CM
C465	Kaposi's sarcoma of lung	Diagnosis	ICD-10-CM
C4650	Kaposi's sarcoma of unspecified lung	Diagnosis	ICD-10-CM
C4651	Kaposi's sarcoma of right lung	Diagnosis	ICD-10-CM
C4652	Kaposi's sarcoma of left lung	Diagnosis	ICD-10-CM
C467	Kaposi's sarcoma of other sites	Diagnosis	ICD-10-CM
C469	Kaposi's sarcoma, unspecified	Diagnosis	ICD-10-CM
C47	Malignant neoplasm of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
C470	Malignant neoplasm of peripheral nerves of head, face and neck	Diagnosis	ICD-10-CM
C471	Malignant neoplasm of peripheral nerves of upper limb, including shoulder	Diagnosis	ICD-10-CM
C4710	Malignant neoplasm of peripheral nerves of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C4711	Malignant neoplasm of peripheral nerves of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C4712	Malignant neoplasm of peripheral nerves of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C472	Malignant neoplasm of peripheral nerves of lower limb, including hip	Diagnosis	ICD-10-CM
C4720	Malignant neoplasm of peripheral nerves of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C4721	Malignant neoplasm of peripheral nerves of right lower limb, including hip	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C4722	Malignant neoplasm of peripheral nerves of left lower limb, including hip	Diagnosis	ICD-10-CM
C473	Malignant neoplasm of peripheral nerves of thorax	Diagnosis	ICD-10-CM
C474	Malignant neoplasm of peripheral nerves of abdomen	Diagnosis	ICD-10-CM
C475	Malignant neoplasm of peripheral nerves of pelvis	Diagnosis	ICD-10-CM
C476	Malignant neoplasm of peripheral nerves of trunk, unspecified	Diagnosis	ICD-10-CM
C478	Malignant neoplasm of overlapping sites of peripheral nerves and autonomic nervous system	Diagnosis	ICD-10-CM
C479	Malignant neoplasm of peripheral nerves and autonomic nervous system, unspecified	Diagnosis	ICD-10-CM
C48	Malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C480	Malignant neoplasm of retroperitoneum	Diagnosis	ICD-10-CM
C481	Malignant neoplasm of specified parts of peritoneum	Diagnosis	ICD-10-CM
C482	Malignant neoplasm of peritoneum, unspecified	Diagnosis	ICD-10-CM
C488	Malignant neoplasm of overlapping sites of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C49	Malignant neoplasm of other connective and soft tissue	Diagnosis	ICD-10-CM
C490	Malignant neoplasm of connective and soft tissue of head, face and neck	Diagnosis	ICD-10-CM
C491	Malignant neoplasm of connective and soft tissue of upper limb, including shoulder	Diagnosis	ICD-10-CM
C4910	Malignant neoplasm of connective and soft tissue of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C4911	Malignant neoplasm of connective and soft tissue of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C4912	Malignant neoplasm of connective and soft tissue of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C492	Malignant neoplasm of connective and soft tissue of lower limb, including hip	Diagnosis	ICD-10-CM
C4920	Malignant neoplasm of connective and soft tissue of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C4921	Malignant neoplasm of connective and soft tissue of right lower limb, including hip	Diagnosis	ICD-10-CM
C4922	Malignant neoplasm of connective and soft tissue of left lower limb, including hip	Diagnosis	ICD-10-CM
C493	Malignant neoplasm of connective and soft tissue of thorax	Diagnosis	ICD-10-CM
C494	Malignant neoplasm of connective and soft tissue of abdomen	Diagnosis	ICD-10-CM
C495	Malignant neoplasm of connective and soft tissue of pelvis	Diagnosis	ICD-10-CM
C496	Malignant neoplasm of connective and soft tissue of trunk, unspecified	Diagnosis	ICD-10-CM
C498	Malignant neoplasm of overlapping sites of connective and soft tissue	Diagnosis	ICD-10-CM
C499	Malignant neoplasm of connective and soft tissue, unspecified	Diagnosis	ICD-10-CM
C49A	Gastrointestinal stromal tumor	Diagnosis	ICD-10-CM
C49A0	Gastrointestinal stromal tumor, unspecified site	Diagnosis	ICD-10-CM
C49A1	Gastrointestinal stromal tumor of esophagus	Diagnosis	ICD-10-CM
C49A2	Gastrointestinal stromal tumor of stomach	Diagnosis	ICD-10-CM
C49A3	Gastrointestinal stromal tumor of small intestine	Diagnosis	ICD-10-CM
C49A4	Gastrointestinal stromal tumor of large intestine	Diagnosis	ICD-10-CM
C49A5	Gastrointestinal stromal tumor of rectum	Diagnosis	ICD-10-CM
C49A9	Gastrointestinal stromal tumor of other sites	Diagnosis	ICD-10-CM
C4A	Merkel cell carcinoma	Diagnosis	ICD-10-CM
C4A0	Merkel cell carcinoma of lip	Diagnosis	ICD-10-CM
C4A1	Merkel cell carcinoma of eyelid, including canthus	Diagnosis	ICD-10-CM
C4A10	Merkel cell carcinoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C4A11	Merkel cell carcinoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C4A111	Merkel cell carcinoma of right upper eyelid, including canthus	Diagnosis	ICD-10-CM
C4A112	Merkel cell carcinoma of right lower eyelid, including canthus	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C4A12	Merkel cell carcinoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C4A121	Merkel cell carcinoma of left upper eyelid, including canthus	Diagnosis	ICD-10-CM
C4A122	Merkel cell carcinoma of left lower eyelid, including canthus	Diagnosis	ICD-10-CM
C4A2	Merkel cell carcinoma of ear and external auricular canal	Diagnosis	ICD-10-CM
C4A20	Merkel cell carcinoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C4A21	Merkel cell carcinoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C4A22	Merkel cell carcinoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C4A3	Merkel cell carcinoma of other and unspecified parts of face	Diagnosis	ICD-10-CM
C4A30	Merkel cell carcinoma of unspecified part of face	Diagnosis	ICD-10-CM
C4A31	Merkel cell carcinoma of nose	Diagnosis	ICD-10-CM
C4A39	Merkel cell carcinoma of other parts of face	Diagnosis	ICD-10-CM
C4A4	Merkel cell carcinoma of scalp and neck	Diagnosis	ICD-10-CM
C4A5	Merkel cell carcinoma of trunk	Diagnosis	ICD-10-CM
C4A51	Merkel cell carcinoma of anal skin	Diagnosis	ICD-10-CM
C4A52	Merkel cell carcinoma of skin of breast	Diagnosis	ICD-10-CM
C4A59	Merkel cell carcinoma of other part of trunk	Diagnosis	ICD-10-CM
C4A6	Merkel cell carcinoma of upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A60	Merkel cell carcinoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A61	Merkel cell carcinoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A62	Merkel cell carcinoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM
C4A7	Merkel cell carcinoma of lower limb, including hip	Diagnosis	ICD-10-CM
C4A70	Merkel cell carcinoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C4A71	Merkel cell carcinoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C4A72	Merkel cell carcinoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C4A8	Merkel cell carcinoma of overlapping sites	Diagnosis	ICD-10-CM
C4A9	Merkel cell carcinoma, unspecified	Diagnosis	ICD-10-CM
C50	Malignant neoplasm of breast	Diagnosis	ICD-10-CM
C500	Malignant neoplasm of nipple and areola	Diagnosis	ICD-10-CM
C5001	Malignant neoplasm of nipple and areola, female	Diagnosis	ICD-10-CM
C50011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C5002	Malignant neoplasm of nipple and areola, male	Diagnosis	ICD-10-CM
C50021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C501	Malignant neoplasm of central portion of breast	Diagnosis	ICD-10-CM
C5011	Malignant neoplasm of central portion of breast, female	Diagnosis	ICD-10-CM
C50111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C5012	Malignant neoplasm of central portion of breast, male	Diagnosis	ICD-10-CM
C50121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C502	Malignant neoplasm of upper-inner quadrant of breast	Diagnosis	ICD-10-CM
C5021	Malignant neoplasm of upper-inner quadrant of breast, female	Diagnosis	ICD-10-CM
C50211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C50219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C5022	Malignant neoplasm of upper-inner quadrant of breast, male	Diagnosis	ICD-10-CM
C50221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C503	Malignant neoplasm of lower-inner quadrant of breast	Diagnosis	ICD-10-CM
C5031	Malignant neoplasm of lower-inner quadrant of breast, female	Diagnosis	ICD-10-CM
C50311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C5032	Malignant neoplasm of lower-inner quadrant of breast, male	Diagnosis	ICD-10-CM
C50321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C504	Malignant neoplasm of upper-outer quadrant of breast	Diagnosis	ICD-10-CM
C5041	Malignant neoplasm of upper-outer quadrant of breast, female	Diagnosis	ICD-10-CM
C50411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C5042	Malignant neoplasm of upper-outer quadrant of breast, male	Diagnosis	ICD-10-CM
C50421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C505	Malignant neoplasm of lower-outer quadrant of breast	Diagnosis	ICD-10-CM
C5051	Malignant neoplasm of lower-outer quadrant of breast, female	Diagnosis	ICD-10-CM
C50511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C5052	Malignant neoplasm of lower-outer quadrant of breast, male	Diagnosis	ICD-10-CM
C50521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C506	Malignant neoplasm of axillary tail of breast	Diagnosis	ICD-10-CM
C5061	Malignant neoplasm of axillary tail of breast, female	Diagnosis	ICD-10-CM
C50611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM
C5062	Malignant neoplasm of axillary tail of breast, male	Diagnosis	ICD-10-CM
C50621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
C50622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C508	Malignant neoplasm of overlapping sites of breast	Diagnosis	ICD-10-CM
C5081	Malignant neoplasm of overlapping sites of breast, female	Diagnosis	ICD-10-CM
C50811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM
C5082	Malignant neoplasm of overlapping sites of breast, male	Diagnosis	ICD-10-CM
C50821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C50829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C509	Malignant neoplasm of breast of unspecified site	Diagnosis	ICD-10-CM
C5091	Malignant neoplasm of breast of unspecified site, female	Diagnosis	ICD-10-CM
C50911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
C50919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C5092	Malignant neoplasm of breast of unspecified site, male	Diagnosis	ICD-10-CM
C50921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
C50929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C51	Malignant neoplasm of vulva	Diagnosis	ICD-10-CM
C510	Malignant neoplasm of labium majus	Diagnosis	ICD-10-CM
C511	Malignant neoplasm of labium minus	Diagnosis	ICD-10-CM
C512	Malignant neoplasm of clitoris	Diagnosis	ICD-10-CM
C518	Malignant neoplasm of overlapping sites of vulva	Diagnosis	ICD-10-CM
C519	Malignant neoplasm of vulva, unspecified	Diagnosis	ICD-10-CM
C52	Malignant neoplasm of vagina	Diagnosis	ICD-10-CM
C53	Malignant neoplasm of cervix uteri	Diagnosis	ICD-10-CM
C530	Malignant neoplasm of endocervix	Diagnosis	ICD-10-CM
C531	Malignant neoplasm of exocervix	Diagnosis	ICD-10-CM
C538	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C539	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
C54	Malignant neoplasm of corpus uteri	Diagnosis	ICD-10-CM
C540	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C541	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C542	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C543	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C548	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C549	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
C56	Malignant neoplasm of ovary	Diagnosis	ICD-10-CM
C561	Malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C562	Malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C569	Malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C57	Malignant neoplasm of other and unspecified female genital organs	Diagnosis	ICD-10-CM
C570	Malignant neoplasm of fallopian tube	Diagnosis	ICD-10-CM
C5700	Malignant neoplasm of unspecified fallopian tube	Diagnosis	ICD-10-CM
C5701	Malignant neoplasm of right fallopian tube	Diagnosis	ICD-10-CM
C5702	Malignant neoplasm of left fallopian tube	Diagnosis	ICD-10-CM
C571	Malignant neoplasm of broad ligament	Diagnosis	ICD-10-CM
C5710	Malignant neoplasm of unspecified broad ligament	Diagnosis	ICD-10-CM
C5711	Malignant neoplasm of right broad ligament	Diagnosis	ICD-10-CM
C5712	Malignant neoplasm of left broad ligament	Diagnosis	ICD-10-CM
C572	Malignant neoplasm of round ligament	Diagnosis	ICD-10-CM
C5720	Malignant neoplasm of unspecified round ligament	Diagnosis	ICD-10-CM
C5721	Malignant neoplasm of right round ligament	Diagnosis	ICD-10-CM
C5722	Malignant neoplasm of left round ligament	Diagnosis	ICD-10-CM
C573	Malignant neoplasm of parametrium	Diagnosis	ICD-10-CM
C574	Malignant neoplasm of uterine adnexa, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C577	Malignant neoplasm of other specified female genital organs	Diagnosis	ICD-10-CM
C578	Malignant neoplasm of overlapping sites of female genital organs	Diagnosis	ICD-10-CM
C579	Malignant neoplasm of female genital organ, unspecified	Diagnosis	ICD-10-CM
C58	Malignant neoplasm of placenta	Diagnosis	ICD-10-CM
C60	Malignant neoplasm of penis	Diagnosis	ICD-10-CM
C600	Malignant neoplasm of prepuce	Diagnosis	ICD-10-CM
C601	Malignant neoplasm of glans penis	Diagnosis	ICD-10-CM
C602	Malignant neoplasm of body of penis	Diagnosis	ICD-10-CM
C608	Malignant neoplasm of overlapping sites of penis	Diagnosis	ICD-10-CM
C609	Malignant neoplasm of penis, unspecified	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
C62	Malignant neoplasm of testis	Diagnosis	ICD-10-CM
C620	Malignant neoplasm of undescended testis	Diagnosis	ICD-10-CM
C6200	Malignant neoplasm of unspecified undescended testis	Diagnosis	ICD-10-CM
C6201	Malignant neoplasm of undescended right testis	Diagnosis	ICD-10-CM
C6202	Malignant neoplasm of undescended left testis	Diagnosis	ICD-10-CM
C621	Malignant neoplasm of descended testis	Diagnosis	ICD-10-CM
C6210	Malignant neoplasm of unspecified descended testis	Diagnosis	ICD-10-CM
C6211	Malignant neoplasm of descended right testis	Diagnosis	ICD-10-CM
C6212	Malignant neoplasm of descended left testis	Diagnosis	ICD-10-CM
C629	Malignant neoplasm of testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C6290	Malignant neoplasm of unspecified testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C6291	Malignant neoplasm of right testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C6292	Malignant neoplasm of left testis, unspecified whether descended or undescended	Diagnosis	ICD-10-CM
C63	Malignant neoplasm of other and unspecified male genital organs	Diagnosis	ICD-10-CM
C630	Malignant neoplasm of epididymis	Diagnosis	ICD-10-CM
C6300	Malignant neoplasm of unspecified epididymis	Diagnosis	ICD-10-CM
C6301	Malignant neoplasm of right epididymis	Diagnosis	ICD-10-CM
C6302	Malignant neoplasm of left epididymis	Diagnosis	ICD-10-CM
C631	Malignant neoplasm of spermatic cord	Diagnosis	ICD-10-CM
C6310	Malignant neoplasm of unspecified spermatic cord	Diagnosis	ICD-10-CM
C6311	Malignant neoplasm of right spermatic cord	Diagnosis	ICD-10-CM
C6312	Malignant neoplasm of left spermatic cord	Diagnosis	ICD-10-CM
C632	Malignant neoplasm of scrotum	Diagnosis	ICD-10-CM
C637	Malignant neoplasm of other specified male genital organs	Diagnosis	ICD-10-CM
C638	Malignant neoplasm of overlapping sites of male genital organs	Diagnosis	ICD-10-CM
C639	Malignant neoplasm of male genital organ, unspecified	Diagnosis	ICD-10-CM
C64	Malignant neoplasm of kidney, except renal pelvis	Diagnosis	ICD-10-CM
C641	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C642	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C649	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65	Malignant neoplasm of renal pelvis	Diagnosis	ICD-10-CM
C651	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C652	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C659	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM
C66	Malignant neoplasm of ureter	Diagnosis	ICD-10-CM
C661	Malignant neoplasm of right ureter	Diagnosis	ICD-10-CM
C662	Malignant neoplasm of left ureter	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C669	Malignant neoplasm of unspecified ureter	Diagnosis	ICD-10-CM
C67	Malignant neoplasm of bladder	Diagnosis	ICD-10-CM
C670	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C671	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C672	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C673	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C674	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C675	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C676	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-10-CM
C677	Malignant neoplasm of urachus	Diagnosis	ICD-10-CM
C678	Malignant neoplasm of overlapping sites of bladder	Diagnosis	ICD-10-CM
C679	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM
C68	Malignant neoplasm of other and unspecified urinary organs	Diagnosis	ICD-10-CM
C680	Malignant neoplasm of urethra	Diagnosis	ICD-10-CM
C681	Malignant neoplasm of paraurethral glands	Diagnosis	ICD-10-CM
C688	Malignant neoplasm of overlapping sites of urinary organs	Diagnosis	ICD-10-CM
C689	Malignant neoplasm of urinary organ, unspecified	Diagnosis	ICD-10-CM
C69	Malignant neoplasm of eye and adnexa	Diagnosis	ICD-10-CM
C690	Malignant neoplasm of conjunctiva	Diagnosis	ICD-10-CM
C6900	Malignant neoplasm of unspecified conjunctiva	Diagnosis	ICD-10-CM
C6901	Malignant neoplasm of right conjunctiva	Diagnosis	ICD-10-CM
C6902	Malignant neoplasm of left conjunctiva	Diagnosis	ICD-10-CM
C691	Malignant neoplasm of cornea	Diagnosis	ICD-10-CM
C6910	Malignant neoplasm of unspecified cornea	Diagnosis	ICD-10-CM
C6911	Malignant neoplasm of right cornea	Diagnosis	ICD-10-CM
C6912	Malignant neoplasm of left cornea	Diagnosis	ICD-10-CM
C692	Malignant neoplasm of retina	Diagnosis	ICD-10-CM
C6920	Malignant neoplasm of unspecified retina	Diagnosis	ICD-10-CM
C6921	Malignant neoplasm of right retina	Diagnosis	ICD-10-CM
C6922	Malignant neoplasm of left retina	Diagnosis	ICD-10-CM
C693	Malignant neoplasm of choroid	Diagnosis	ICD-10-CM
C6930	Malignant neoplasm of unspecified choroid	Diagnosis	ICD-10-CM
C6931	Malignant neoplasm of right choroid	Diagnosis	ICD-10-CM
C6932	Malignant neoplasm of left choroid	Diagnosis	ICD-10-CM
C694	Malignant neoplasm of ciliary body	Diagnosis	ICD-10-CM
C6940	Malignant neoplasm of unspecified ciliary body	Diagnosis	ICD-10-CM
C6941	Malignant neoplasm of right ciliary body	Diagnosis	ICD-10-CM
C6942	Malignant neoplasm of left ciliary body	Diagnosis	ICD-10-CM
C695	Malignant neoplasm of lacrimal gland and duct	Diagnosis	ICD-10-CM
C6950	Malignant neoplasm of unspecified lacrimal gland and duct	Diagnosis	ICD-10-CM
C6951	Malignant neoplasm of right lacrimal gland and duct	Diagnosis	ICD-10-CM
C6952	Malignant neoplasm of left lacrimal gland and duct	Diagnosis	ICD-10-CM
C696	Malignant neoplasm of orbit	Diagnosis	ICD-10-CM
C6960	Malignant neoplasm of unspecified orbit	Diagnosis	ICD-10-CM
C6961	Malignant neoplasm of right orbit	Diagnosis	ICD-10-CM
C6962	Malignant neoplasm of left orbit	Diagnosis	ICD-10-CM
C698	Malignant neoplasm of overlapping sites of eye and adnexa	Diagnosis	ICD-10-CM
C6980	Malignant neoplasm of overlapping sites of unspecified eye and adnexa	Diagnosis	ICD-10-CM
C6981	Malignant neoplasm of overlapping sites of right eye and adnexa	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C6982	Malignant neoplasm of overlapping sites of left eye and adnexa	Diagnosis	ICD-10-CM
C699	Malignant neoplasm of unspecified site of eye	Diagnosis	ICD-10-CM
C6990	Malignant neoplasm of unspecified site of unspecified eye	Diagnosis	ICD-10-CM
C6991	Malignant neoplasm of unspecified site of right eye	Diagnosis	ICD-10-CM
C6992	Malignant neoplasm of unspecified site of left eye	Diagnosis	ICD-10-CM
C70	Malignant neoplasm of meninges	Diagnosis	ICD-10-CM
C700	Malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM
C701	Malignant neoplasm of spinal meninges	Diagnosis	ICD-10-CM
C709	Malignant neoplasm of meninges, unspecified	Diagnosis	ICD-10-CM
C71	Malignant neoplasm of brain	Diagnosis	ICD-10-CM
C710	Malignant neoplasm of cerebrum, except lobes and ventricles	Diagnosis	ICD-10-CM
C711	Malignant neoplasm of frontal lobe	Diagnosis	ICD-10-CM
C712	Malignant neoplasm of temporal lobe	Diagnosis	ICD-10-CM
C713	Malignant neoplasm of parietal lobe	Diagnosis	ICD-10-CM
C714	Malignant neoplasm of occipital lobe	Diagnosis	ICD-10-CM
C715	Malignant neoplasm of cerebral ventricle	Diagnosis	ICD-10-CM
C716	Malignant neoplasm of cerebellum	Diagnosis	ICD-10-CM
C717	Malignant neoplasm of brain stem	Diagnosis	ICD-10-CM
C718	Malignant neoplasm of overlapping sites of brain	Diagnosis	ICD-10-CM
C719	Malignant neoplasm of brain, unspecified	Diagnosis	ICD-10-CM
C72	Malignant neoplasm of spinal cord, cranial nerves and other parts of central nervous system	Diagnosis	ICD-10-CM
C720	Malignant neoplasm of spinal cord	Diagnosis	ICD-10-CM
C721	Malignant neoplasm of cauda equina	Diagnosis	ICD-10-CM
C722	Malignant neoplasm of olfactory nerve	Diagnosis	ICD-10-CM
C7220	Malignant neoplasm of unspecified olfactory nerve	Diagnosis	ICD-10-CM
C7221	Malignant neoplasm of right olfactory nerve	Diagnosis	ICD-10-CM
C7222	Malignant neoplasm of left olfactory nerve	Diagnosis	ICD-10-CM
C723	Malignant neoplasm of optic nerve	Diagnosis	ICD-10-CM
C7230	Malignant neoplasm of unspecified optic nerve	Diagnosis	ICD-10-CM
C7231	Malignant neoplasm of right optic nerve	Diagnosis	ICD-10-CM
C7232	Malignant neoplasm of left optic nerve	Diagnosis	ICD-10-CM
C724	Malignant neoplasm of acoustic nerve	Diagnosis	ICD-10-CM
C7240	Malignant neoplasm of unspecified acoustic nerve	Diagnosis	ICD-10-CM
C7241	Malignant neoplasm of right acoustic nerve	Diagnosis	ICD-10-CM
C7242	Malignant neoplasm of left acoustic nerve	Diagnosis	ICD-10-CM
C725	Malignant neoplasm of other and unspecified cranial nerves	Diagnosis	ICD-10-CM
C7250	Malignant neoplasm of unspecified cranial nerve	Diagnosis	ICD-10-CM
C7259	Malignant neoplasm of other cranial nerves	Diagnosis	ICD-10-CM
C729	Malignant neoplasm of central nervous system, unspecified	Diagnosis	ICD-10-CM
C73	Malignant neoplasm of thyroid gland	Diagnosis	ICD-10-CM
C74	Malignant neoplasm of adrenal gland	Diagnosis	ICD-10-CM
C740	Malignant neoplasm of cortex of adrenal gland	Diagnosis	ICD-10-CM
C7400	Malignant neoplasm of cortex of unspecified adrenal gland	Diagnosis	ICD-10-CM
C7401	Malignant neoplasm of cortex of right adrenal gland	Diagnosis	ICD-10-CM
C7402	Malignant neoplasm of cortex of left adrenal gland	Diagnosis	ICD-10-CM
C741	Malignant neoplasm of medulla of adrenal gland	Diagnosis	ICD-10-CM
C7410	Malignant neoplasm of medulla of unspecified adrenal gland	Diagnosis	ICD-10-CM
C7411	Malignant neoplasm of medulla of right adrenal gland	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
C7412	Malignant neoplasm of medulla of left adrenal gland	Diagnosis	ICD-10-CM
C749	Malignant neoplasm of unspecified part of adrenal gland	Diagnosis	ICD-10-CM
C7490	Malignant neoplasm of unspecified part of unspecified adrenal gland	Diagnosis	ICD-10-CM
C7491	Malignant neoplasm of unspecified part of right adrenal gland	Diagnosis	ICD-10-CM
C7492	Malignant neoplasm of unspecified part of left adrenal gland	Diagnosis	ICD-10-CM
C75	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-10-CM
C750	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-10-CM
C751	Malignant neoplasm of pituitary gland	Diagnosis	ICD-10-CM
C752	Malignant neoplasm of craniopharyngeal duct	Diagnosis	ICD-10-CM
C753	Malignant neoplasm of pineal gland	Diagnosis	ICD-10-CM
C754	Malignant neoplasm of carotid body	Diagnosis	ICD-10-CM
C755	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-10-CM
C758	Malignant neoplasm with pluriglandular involvement, unspecified	Diagnosis	ICD-10-CM
C759	Malignant neoplasm of endocrine gland, unspecified	Diagnosis	ICD-10-CM
C76	Malignant neoplasm of other and ill-defined sites	Diagnosis	ICD-10-CM
C760	Malignant neoplasm of head, face and neck	Diagnosis	ICD-10-CM
C761	Malignant neoplasm of thorax	Diagnosis	ICD-10-CM
C762	Malignant neoplasm of abdomen	Diagnosis	ICD-10-CM
C763	Malignant neoplasm of pelvis	Diagnosis	ICD-10-CM
C764	Malignant neoplasm of upper limb	Diagnosis	ICD-10-CM
C7640	Malignant neoplasm of unspecified upper limb	Diagnosis	ICD-10-CM
C7641	Malignant neoplasm of right upper limb	Diagnosis	ICD-10-CM
C7642	Malignant neoplasm of left upper limb	Diagnosis	ICD-10-CM
C765	Malignant neoplasm of lower limb	Diagnosis	ICD-10-CM
C7650	Malignant neoplasm of unspecified lower limb	Diagnosis	ICD-10-CM
C7651	Malignant neoplasm of right lower limb	Diagnosis	ICD-10-CM
C7652	Malignant neoplasm of left lower limb	Diagnosis	ICD-10-CM
C768	Malignant neoplasm of other specified ill-defined sites	Diagnosis	ICD-10-CM
C77	Secondary and unspecified malignant neoplasm of lymph nodes	Diagnosis	ICD-10-CM
C770	Secondary and unspecified malignant neoplasm of lymph nodes of head, face and neck	Diagnosis	ICD-10-CM
C771	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C772	Secondary and unspecified malignant neoplasm of intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C773	Secondary and unspecified malignant neoplasm of axilla and upper limb lymph nodes	Diagnosis	ICD-10-CM
C774	Secondary and unspecified malignant neoplasm of inguinal and lower limb lymph nodes	Diagnosis	ICD-10-CM
C775	Secondary and unspecified malignant neoplasm of intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C778	Secondary and unspecified malignant neoplasm of lymph nodes of multiple regions	Diagnosis	ICD-10-CM
C779	Secondary and unspecified malignant neoplasm of lymph node, unspecified	Diagnosis	ICD-10-CM
C78	Secondary malignant neoplasm of respiratory and digestive organs	Diagnosis	ICD-10-CM
C780	Secondary malignant neoplasm of lung	Diagnosis	ICD-10-CM
C7800	Secondary malignant neoplasm of unspecified lung	Diagnosis	ICD-10-CM
C7801	Secondary malignant neoplasm of right lung	Diagnosis	ICD-10-CM
C7802	Secondary malignant neoplasm of left lung	Diagnosis	ICD-10-CM
C781	Secondary malignant neoplasm of mediastinum	Diagnosis	ICD-10-CM
C782	Secondary malignant neoplasm of pleura	Diagnosis	ICD-10-CM
C783	Secondary malignant neoplasm of other and unspecified respiratory organs	Diagnosis	ICD-10-CM
C7830	Secondary malignant neoplasm of unspecified respiratory organ	Diagnosis	ICD-10-CM



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Code	Description	Code	
		Category	Code Type
C7839	Secondary malignant neoplasm of other respiratory organs	Diagnosis	ICD-10-CM
C784	Secondary malignant neoplasm of small intestine	Diagnosis	ICD-10-CM
C785	Secondary malignant neoplasm of large intestine and rectum	Diagnosis	ICD-10-CM
C786	Secondary malignant neoplasm of retroperitoneum and peritoneum	Diagnosis	ICD-10-CM
C787	Secondary malignant neoplasm of liver and intrahepatic bile duct	Diagnosis	ICD-10-CM
C788	Secondary malignant neoplasm of other and unspecified digestive organs	Diagnosis	ICD-10-CM
C7880	Secondary malignant neoplasm of unspecified digestive organ	Diagnosis	ICD-10-CM
C7889	Secondary malignant neoplasm of other digestive organs	Diagnosis	ICD-10-CM
C79	Secondary malignant neoplasm of other and unspecified sites	Diagnosis	ICD-10-CM
C790	Secondary malignant neoplasm of kidney and renal pelvis	Diagnosis	ICD-10-CM
C7900	Secondary malignant neoplasm of unspecified kidney and renal pelvis	Diagnosis	ICD-10-CM
C7901	Secondary malignant neoplasm of right kidney and renal pelvis	Diagnosis	ICD-10-CM
C7902	Secondary malignant neoplasm of left kidney and renal pelvis	Diagnosis	ICD-10-CM
C791	Secondary malignant neoplasm of bladder and other and unspecified urinary organs	Diagnosis	ICD-10-CM
C7910	Secondary malignant neoplasm of unspecified urinary organs	Diagnosis	ICD-10-CM
C7911	Secondary malignant neoplasm of bladder	Diagnosis	ICD-10-CM
C7919	Secondary malignant neoplasm of other urinary organs	Diagnosis	ICD-10-CM
C792	Secondary malignant neoplasm of skin	Diagnosis	ICD-10-CM
C793	Secondary malignant neoplasm of brain and cerebral meninges	Diagnosis	ICD-10-CM
C7931	Secondary malignant neoplasm of brain	Diagnosis	ICD-10-CM
C7932	Secondary malignant neoplasm of cerebral meninges	Diagnosis	ICD-10-CM
C794	Secondary malignant neoplasm of other and unspecified parts of nervous system	Diagnosis	ICD-10-CM
C7940	Secondary malignant neoplasm of unspecified part of nervous system	Diagnosis	ICD-10-CM
C7949	Secondary malignant neoplasm of other parts of nervous system	Diagnosis	ICD-10-CM
C795	Secondary malignant neoplasm of bone and bone marrow	Diagnosis	ICD-10-CM
C7951	Secondary malignant neoplasm of bone	Diagnosis	ICD-10-CM
C7952	Secondary malignant neoplasm of bone marrow	Diagnosis	ICD-10-CM
C796	Secondary malignant neoplasm of ovary	Diagnosis	ICD-10-CM
C7960	Secondary malignant neoplasm of unspecified ovary	Diagnosis	ICD-10-CM
C7961	Secondary malignant neoplasm of right ovary	Diagnosis	ICD-10-CM
C7962	Secondary malignant neoplasm of left ovary	Diagnosis	ICD-10-CM
C797	Secondary malignant neoplasm of adrenal gland	Diagnosis	ICD-10-CM
C7970	Secondary malignant neoplasm of unspecified adrenal gland	Diagnosis	ICD-10-CM
C7971	Secondary malignant neoplasm of right adrenal gland	Diagnosis	ICD-10-CM
C7972	Secondary malignant neoplasm of left adrenal gland	Diagnosis	ICD-10-CM
C798	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-10-CM
C7981	Secondary malignant neoplasm of breast	Diagnosis	ICD-10-CM
C7982	Secondary malignant neoplasm of genital organs	Diagnosis	ICD-10-CM
C7989	Secondary malignant neoplasm of other specified sites	Diagnosis	ICD-10-CM
C799	Secondary malignant neoplasm of unspecified site	Diagnosis	ICD-10-CM
C7A	Malignant neuroendocrine tumors	Diagnosis	ICD-10-CM
C7A0	Malignant carcinoid tumors	Diagnosis	ICD-10-CM
C7A00	Malignant carcinoid tumor of unspecified site	Diagnosis	ICD-10-CM
C7A01	Malignant carcinoid tumors of the small intestine	Diagnosis	ICD-10-CM
C7A010	Malignant carcinoid tumor of the duodenum	Diagnosis	ICD-10-CM
C7A011	Malignant carcinoid tumor of the jejunum	Diagnosis	ICD-10-CM
C7A012	Malignant carcinoid tumor of the ileum	Diagnosis	ICD-10-CM
C7A019	Malignant carcinoid tumor of the small intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A02	Malignant carcinoid tumors of the appendix, large intestine, and rectum	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C7A020	Malignant carcinoid tumor of the appendix	Diagnosis	ICD-10-CM
C7A021	Malignant carcinoid tumor of the cecum	Diagnosis	ICD-10-CM
C7A022	Malignant carcinoid tumor of the ascending colon	Diagnosis	ICD-10-CM
C7A023	Malignant carcinoid tumor of the transverse colon	Diagnosis	ICD-10-CM
C7A024	Malignant carcinoid tumor of the descending colon	Diagnosis	ICD-10-CM
C7A025	Malignant carcinoid tumor of the sigmoid colon	Diagnosis	ICD-10-CM
C7A026	Malignant carcinoid tumor of the rectum	Diagnosis	ICD-10-CM
C7A029	Malignant carcinoid tumor of the large intestine, unspecified portion	Diagnosis	ICD-10-CM
C7A09	Malignant carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7A090	Malignant carcinoid tumor of the bronchus and lung	Diagnosis	ICD-10-CM
C7A091	Malignant carcinoid tumor of the thymus	Diagnosis	ICD-10-CM
C7A092	Malignant carcinoid tumor of the stomach	Diagnosis	ICD-10-CM
C7A093	Malignant carcinoid tumor of the kidney	Diagnosis	ICD-10-CM
C7A094	Malignant carcinoid tumor of the foregut, unspecified	Diagnosis	ICD-10-CM
C7A095	Malignant carcinoid tumor of the midgut, unspecified	Diagnosis	ICD-10-CM
C7A096	Malignant carcinoid tumor of the hindgut, unspecified	Diagnosis	ICD-10-CM
C7A098	Malignant carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7A1	Malignant poorly differentiated neuroendocrine tumors	Diagnosis	ICD-10-CM
C7A8	Other malignant neuroendocrine tumors	Diagnosis	ICD-10-CM
C7B	Secondary neuroendocrine tumors	Diagnosis	ICD-10-CM
C7B0	Secondary carcinoid tumors	Diagnosis	ICD-10-CM
C7B00	Secondary carcinoid tumors, unspecified site	Diagnosis	ICD-10-CM
C7B01	Secondary carcinoid tumors of distant lymph nodes	Diagnosis	ICD-10-CM
C7B02	Secondary carcinoid tumors of liver	Diagnosis	ICD-10-CM
C7B03	Secondary carcinoid tumors of bone	Diagnosis	ICD-10-CM
C7B04	Secondary carcinoid tumors of peritoneum	Diagnosis	ICD-10-CM
C7B09	Secondary carcinoid tumors of other sites	Diagnosis	ICD-10-CM
C7B1	Secondary Merkel cell carcinoma	Diagnosis	ICD-10-CM
C7B8	Other secondary neuroendocrine tumors	Diagnosis	ICD-10-CM
C80	Malignant neoplasm without specification of site	Diagnosis	ICD-10-CM
C800	Disseminated malignant neoplasm, unspecified	Diagnosis	ICD-10-CM
C801	Malignant (primary) neoplasm, unspecified	Diagnosis	ICD-10-CM
C802	Malignant neoplasm associated with transplanted organ	Diagnosis	ICD-10-CM
C81	Hodgkin lymphoma	Diagnosis	ICD-10-CM
C810	Nodular lymphocyte predominant Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8100	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8101	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8102	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8103	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8104	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8105	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8106	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8107	Nodular lymphocyte predominant Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8108	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8109	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C811	Nodular sclerosis Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8110	Nodular sclerosis Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8111	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8112	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8113	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8114	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8115	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8116	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8117	Nodular sclerosis Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8118	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8119	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C812	Mixed cellularity Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8120	Mixed cellularity Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8121	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8122	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8123	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8124	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8125	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8126	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8127	Mixed cellularity Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8128	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8129	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C813	Lymphocyte depleted Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8130	Lymphocyte depleted Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8131	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8132	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8133	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8134	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8135	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8136	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8137	Lymphocyte depleted Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8138	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8139	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C814	Lymphocyte-rich Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8140	Lymphocyte-rich Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8141	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8142	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8143	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8144	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8145	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8146	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8147	Lymphocyte-rich Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8148	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8149	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C817	Other Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8170	Other Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8171	Other Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8172	Other Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8173	Other Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8174	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8175	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8176	Other Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8177	Other Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8178	Other Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8179	Other Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C819	Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C8190	Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8191	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8192	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8193	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8194	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8195	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8196	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8197	Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C8198	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8199	Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82	Follicular lymphoma	Diagnosis	ICD-10-CM
C820	Follicular lymphoma grade I	Diagnosis	ICD-10-CM
C8200	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C8201	Follicular lymphoma grade I, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8202	Follicular lymphoma grade I, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8203	Follicular lymphoma grade I, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8204	Follicular lymphoma grade I, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8205	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8206	Follicular lymphoma grade I, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8207	Follicular lymphoma grade I, spleen	Diagnosis	ICD-10-CM
C8208	Follicular lymphoma grade I, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8209	Follicular lymphoma grade I, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C821	Follicular lymphoma grade II	Diagnosis	ICD-10-CM
C8210	Follicular lymphoma grade II, unspecified site	Diagnosis	ICD-10-CM
C8211	Follicular lymphoma grade II, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8212	Follicular lymphoma grade II, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8213	Follicular lymphoma grade II, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8214	Follicular lymphoma grade II, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8215	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8216	Follicular lymphoma grade II, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8217	Follicular lymphoma grade II, spleen	Diagnosis	ICD-10-CM
C8218	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8219	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C822	Follicular lymphoma grade III, unspecified	Diagnosis	ICD-10-CM
C8220	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8221	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8222	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8223	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8224	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8225	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8226	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8227	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C8228	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8229	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C823	Follicular lymphoma grade IIIa	Diagnosis	ICD-10-CM
C8230	Follicular lymphoma grade IIIa, unspecified site	Diagnosis	ICD-10-CM
C8231	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8232	Follicular lymphoma grade IIIa, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8233	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8234	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8235	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8236	Follicular lymphoma grade IIIa, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8237	Follicular lymphoma grade IIIa, spleen	Diagnosis	ICD-10-CM
C8238	Follicular lymphoma grade IIIa, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8239	Follicular lymphoma grade IIIa, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C824	Follicular lymphoma grade IIIb	Diagnosis	ICD-10-CM
C8240	Follicular lymphoma grade IIIb, unspecified site	Diagnosis	ICD-10-CM
C8241	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8242	Follicular lymphoma grade IIIb, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8243	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8244	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8245	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8246	Follicular lymphoma grade IIIb, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8247	Follicular lymphoma grade IIIb, spleen	Diagnosis	ICD-10-CM
C8248	Follicular lymphoma grade IIIb, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8249	Follicular lymphoma grade IIIb, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C825	Diffuse follicle center lymphoma	Diagnosis	ICD-10-CM
C8250	Diffuse follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8251	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8252	Diffuse follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8253	Diffuse follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8254	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8255	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8256	Diffuse follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8257	Diffuse follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C8258	Diffuse follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8259	Diffuse follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C826	Cutaneous follicle center lymphoma	Diagnosis	ICD-10-CM
C8260	Cutaneous follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8261	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8262	Cutaneous follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8263	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8264	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8265	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8266	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8267	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C8268	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8269	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C828	Other types of follicular lymphoma	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8280	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8281	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8282	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8283	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8284	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8285	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8286	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8287	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C8288	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8289	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C829	Follicular lymphoma, unspecified	Diagnosis	ICD-10-CM
C8290	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8291	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8292	Follicular lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8293	Follicular lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8294	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8295	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8296	Follicular lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8297	Follicular lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C8298	Follicular lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8299	Follicular lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83	Non-follicular lymphoma	Diagnosis	ICD-10-CM
C830	Small cell B-cell lymphoma	Diagnosis	ICD-10-CM
C8300	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8301	Small cell B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8302	Small cell B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8303	Small cell B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8304	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8305	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8306	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8307	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C8308	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8309	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C831	Mantle cell lymphoma	Diagnosis	ICD-10-CM
C8310	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8311	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8312	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8313	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8314	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8315	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8316	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8317	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C8318	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8319	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C833	Diffuse large B-cell lymphoma	Diagnosis	ICD-10-CM
C8330	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8331	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8332	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8333	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8334	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8335	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8336	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8337	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C8338	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8339	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C835	Lymphoblastic (diffuse) lymphoma	Diagnosis	ICD-10-CM
C8350	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8351	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8352	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8353	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8354	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8355	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8356	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8357	Lymphoblastic (diffuse) lymphoma, spleen	Diagnosis	ICD-10-CM
C8358	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8359	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C837	Burkitt lymphoma	Diagnosis	ICD-10-CM
C8370	Burkitt lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8371	Burkitt lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8372	Burkitt lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8373	Burkitt lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8374	Burkitt lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8375	Burkitt lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8376	Burkitt lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8377	Burkitt lymphoma, spleen	Diagnosis	ICD-10-CM
C8378	Burkitt lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8379	Burkitt lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C838	Other non-follicular lymphoma	Diagnosis	ICD-10-CM
C8380	Other non-follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8381	Other non-follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8382	Other non-follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8383	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8384	Other non-follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8385	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8386	Other non-follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8387	Other non-follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C8388	Other non-follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8389	Other non-follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C839	Non-follicular (diffuse) lymphoma, unspecified	Diagnosis	ICD-10-CM
C8390	Non-follicular (diffuse) lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8391	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8392	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8393	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8394	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8395	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8396	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8397	Non-follicular (diffuse) lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8398	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8399	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84	Mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C840	Mycosis fungoides	Diagnosis	ICD-10-CM
C8400	Mycosis fungoides, unspecified site	Diagnosis	ICD-10-CM
C8401	Mycosis fungoides, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8402	Mycosis fungoides, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8403	Mycosis fungoides, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8404	Mycosis fungoides, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8405	Mycosis fungoides, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8406	Mycosis fungoides, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8407	Mycosis fungoides, spleen	Diagnosis	ICD-10-CM
C8408	Mycosis fungoides, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8409	Mycosis fungoides, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C841	Sezary disease	Diagnosis	ICD-10-CM
C8410	Sezary disease, unspecified site	Diagnosis	ICD-10-CM
C8411	Sezary disease, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8412	Sezary disease, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8413	Sezary disease, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8414	Sezary disease, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8415	Sezary disease, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8416	Sezary disease, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8417	Sezary disease, spleen	Diagnosis	ICD-10-CM
C8418	Sezary disease, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8419	Sezary disease, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C844	Peripheral T-cell lymphoma, not classified	Diagnosis	ICD-10-CM
C8440	Peripheral T-cell lymphoma, not classified, unspecified site	Diagnosis	ICD-10-CM
C8441	Peripheral T-cell lymphoma, not classified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8442	Peripheral T-cell lymphoma, not classified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8443	Peripheral T-cell lymphoma, not classified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8444	Peripheral T-cell lymphoma, not classified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8445	Peripheral T-cell lymphoma, not classified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8446	Peripheral T-cell lymphoma, not classified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8447	Peripheral T-cell lymphoma, not classified, spleen	Diagnosis	ICD-10-CM
C8448	Peripheral T-cell lymphoma, not classified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8449	Peripheral T-cell lymphoma, not classified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C846	Anaplastic large cell lymphoma, ALK-positive	Diagnosis	ICD-10-CM
C8460	Anaplastic large cell lymphoma, ALK-positive, unspecified site	Diagnosis	ICD-10-CM
C8461	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8462	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8463	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8464	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8465	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8466	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8467	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C8468	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8469	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C847	Anaplastic large cell lymphoma, ALK-negative	Diagnosis	ICD-10-CM
C8470	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C8471	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8472	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8473	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8474	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8475	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8476	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8477	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C8478	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8479	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C849	Mature T/NK-cell lymphomas, unspecified	Diagnosis	ICD-10-CM
C8490	Mature T/NK-cell lymphomas, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8491	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8492	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8493	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8494	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8495	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8496	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8497	Mature T/NK-cell lymphomas, unspecified, spleen	Diagnosis	ICD-10-CM
C8498	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8499	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84A	Cutaneous T-cell lymphoma, unspecified	Diagnosis	ICD-10-CM
C84A0	Cutaneous T-cell lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84A7	Cutaneous T-cell lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C84A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84Z	Other mature T/NK-cell lymphomas	Diagnosis	ICD-10-CM
C84Z0	Other mature T/NK-cell lymphomas, unspecified site	Diagnosis	ICD-10-CM
C84Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84Z7	Other mature T/NK-cell lymphomas, spleen	Diagnosis	ICD-10-CM
C84Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85	Other specified and unspecified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C851	Unspecified B-cell lymphoma	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C8510	Unspecified B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8511	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8512	Unspecified B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8513	Unspecified B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8514	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8515	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8516	Unspecified B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8517	Unspecified B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C8518	Unspecified B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8519	Unspecified B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C852	Mediastinal (thymic) large B-cell lymphoma	Diagnosis	ICD-10-CM
C8520	Mediastinal (thymic) large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8521	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8522	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8523	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8524	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8525	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8526	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8527	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C8528	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8529	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C858	Other specified types of non-Hodgkin lymphoma	Diagnosis	ICD-10-CM
C8580	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C8581	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8582	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8583	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8584	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8585	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8586	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8587	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C8588	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8589	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C859	Non-Hodgkin lymphoma, unspecified	Diagnosis	ICD-10-CM
C8590	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C8591	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C8592	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C8593	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C8594	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C8595	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C8596	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C8597	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C8598	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C8599	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C86	Other specified types of T/NK-cell lymphoma	Diagnosis	ICD-10-CM
C860	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C861	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C862	Enteropathy-type (intestinal) T-cell lymphoma	Diagnosis	ICD-10-CM
C863	Subcutaneous panniculitis-like T-cell lymphoma	Diagnosis	ICD-10-CM
C864	Blastic NK-cell lymphoma	Diagnosis	ICD-10-CM
C865	Angioimmunoblastic T-cell lymphoma	Diagnosis	ICD-10-CM
C866	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C88	Malignant immunoproliferative diseases and certain other B-cell lymphomas	Diagnosis	ICD-10-CM
C880	Waldenstrom macroglobulinemia	Diagnosis	ICD-10-CM
C882	Heavy chain disease	Diagnosis	ICD-10-CM
C883	Immunoproliferative small intestinal disease	Diagnosis	ICD-10-CM
C884	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM
C888	Other malignant immunoproliferative diseases	Diagnosis	ICD-10-CM
C889	Malignant immunoproliferative disease, unspecified	Diagnosis	ICD-10-CM
C90	Multiple myeloma and malignant plasma cell neoplasms	Diagnosis	ICD-10-CM
C900	Multiple myeloma	Diagnosis	ICD-10-CM
C9000	Multiple myeloma not having achieved remission	Diagnosis	ICD-10-CM
C9001	Multiple myeloma in remission	Diagnosis	ICD-10-CM
C9002	Multiple myeloma in relapse	Diagnosis	ICD-10-CM
C901	Plasma cell leukemia	Diagnosis	ICD-10-CM
C9010	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9011	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM
C9012	Plasma cell leukemia in relapse	Diagnosis	ICD-10-CM
C902	Extramedullary plasmacytoma	Diagnosis	ICD-10-CM
C9020	Extramedullary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C9021	Extramedullary plasmacytoma in remission	Diagnosis	ICD-10-CM
C9022	Extramedullary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C903	Solitary plasmacytoma	Diagnosis	ICD-10-CM
C9030	Solitary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C9031	Solitary plasmacytoma in remission	Diagnosis	ICD-10-CM
C9032	Solitary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C91	Lymphoid leukemia	Diagnosis	ICD-10-CM
C910	Acute lymphoblastic leukemia [ALL]	Diagnosis	ICD-10-CM
C9100	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9101	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C9102	Acute lymphoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C911	Chronic lymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C9110	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C9111	Chronic lymphocytic leukemia of B-cell type in remission	Diagnosis	ICD-10-CM
C9112	Chronic lymphocytic leukemia of B-cell type in relapse	Diagnosis	ICD-10-CM
C913	Prolymphocytic leukemia of B-cell type	Diagnosis	ICD-10-CM
C9130	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C9131	Prolymphocytic leukemia of B-cell type, in remission	Diagnosis	ICD-10-CM
C9132	Prolymphocytic leukemia of B-cell type, in relapse	Diagnosis	ICD-10-CM
C914	Hairy cell leukemia	Diagnosis	ICD-10-CM
C9140	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9141	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C9142	Hairy cell leukemia, in relapse	Diagnosis	ICD-10-CM
C915	Adult T-cell lymphoma/leukemia (HTLV-1-associated)	Diagnosis	ICD-10-CM
C9150	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C9151	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C9152	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C916	Prolymphocytic leukemia of T-cell type	Diagnosis	ICD-10-CM
C9160	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C9161	Prolymphocytic leukemia of T-cell type, in remission	Diagnosis	ICD-10-CM
C9162	Prolymphocytic leukemia of T-cell type, in relapse	Diagnosis	ICD-10-CM
C919	Lymphoid leukemia, unspecified	Diagnosis	ICD-10-CM
C9190	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C9191	Lymphoid leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C9192	Lymphoid leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C91A	Mature B-cell leukemia Burkitt-type	Diagnosis	ICD-10-CM
C91A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91A1	Mature B-cell leukemia Burkitt-type, in remission	Diagnosis	ICD-10-CM
C91A2	Mature B-cell leukemia Burkitt-type, in relapse	Diagnosis	ICD-10-CM
C91Z	Other lymphoid leukemia	Diagnosis	ICD-10-CM
C91Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91Z1	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C91Z2	Other lymphoid leukemia, in relapse	Diagnosis	ICD-10-CM
C92	Myeloid leukemia	Diagnosis	ICD-10-CM
C920	Acute myeloblastic leukemia	Diagnosis	ICD-10-CM
C9200	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9201	Acute myeloblastic leukemia, in remission	Diagnosis	ICD-10-CM
C9202	Acute myeloblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C921	Chronic myeloid leukemia, BCR/ABL-positive	Diagnosis	ICD-10-CM
C9210	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C9211	Chronic myeloid leukemia, BCR/ABL-positive, in remission	Diagnosis	ICD-10-CM
C9212	Chronic myeloid leukemia, BCR/ABL-positive, in relapse	Diagnosis	ICD-10-CM
C922	Atypical chronic myeloid leukemia, BCR/ABL-negative	Diagnosis	ICD-10-CM
C9220	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C9221	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission	Diagnosis	ICD-10-CM
C9222	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse	Diagnosis	ICD-10-CM
C923	Myeloid sarcoma	Diagnosis	ICD-10-CM
C9230	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C9231	Myeloid sarcoma, in remission	Diagnosis	ICD-10-CM
C9232	Myeloid sarcoma, in relapse	Diagnosis	ICD-10-CM
C924	Acute promyelocytic leukemia	Diagnosis	ICD-10-CM
C9240	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9241	Acute promyelocytic leukemia, in remission	Diagnosis	ICD-10-CM
C9242	Acute promyelocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C925	Acute myelomonocytic leukemia	Diagnosis	ICD-10-CM
C9250	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9251	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C9252	Acute myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C926	Acute myeloid leukemia with 11q23-abnormality	Diagnosis	ICD-10-CM
C9260	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM
C9261	Acute myeloid leukemia with 11q23-abnormality in remission	Diagnosis	ICD-10-CM
C9262	Acute myeloid leukemia with 11q23-abnormality in relapse	Diagnosis	ICD-10-CM
C929	Myeloid leukemia, unspecified	Diagnosis	ICD-10-CM
C9290	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C9291	Myeloid leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C9292	Myeloid leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C92A	Acute myeloid leukemia with multilineage dysplasia	Diagnosis	ICD-10-CM
C92A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92A1	Acute myeloid leukemia with multilineage dysplasia, in remission	Diagnosis	ICD-10-CM
C92A2	Acute myeloid leukemia with multilineage dysplasia, in relapse	Diagnosis	ICD-10-CM
C92Z	Other myeloid leukemia	Diagnosis	ICD-10-CM
C92Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92Z1	Other myeloid leukemia, in remission	Diagnosis	ICD-10-CM
C92Z2	Other myeloid leukemia, in relapse	Diagnosis	ICD-10-CM
C93	Monocytic leukemia	Diagnosis	ICD-10-CM
C930	Acute monoblastic/monocytic leukemia	Diagnosis	ICD-10-CM
C9300	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9301	Acute monoblastic/monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C9302	Acute monoblastic/monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C931	Chronic myelomonocytic leukemia	Diagnosis	ICD-10-CM
C9310	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9311	Chronic myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C9312	Chronic myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C933	Juvenile myelomonocytic leukemia	Diagnosis	ICD-10-CM
C9330	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9331	Juvenile myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C9332	Juvenile myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C939	Monocytic leukemia, unspecified	Diagnosis	ICD-10-CM
C9390	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C9391	Monocytic leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C9392	Monocytic leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C93Z	Other monocytic leukemia	Diagnosis	ICD-10-CM
C93Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93Z1	Other monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93Z2	Other monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C94	Other leukemias of specified cell type	Diagnosis	ICD-10-CM
C940	Acute erythroid leukemia	Diagnosis	ICD-10-CM
C9400	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C9401	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C9402	Acute erythroid leukemia, in relapse	Diagnosis	ICD-10-CM
C942	Acute megakaryoblastic leukemia	Diagnosis	ICD-10-CM
C9420	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9421	Acute megakaryoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C9422	Acute megakaryoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C943	Mast cell leukemia	Diagnosis	ICD-10-CM
C9430	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C9431	Mast cell leukemia, in remission	Diagnosis	ICD-10-CM
C9432	Mast cell leukemia, in relapse	Diagnosis	ICD-10-CM
C944	Acute panmyelosis with myelofibrosis	Diagnosis	ICD-10-CM
C9440	Acute panmyelosis with myelofibrosis not having achieved remission	Diagnosis	ICD-10-CM
C9441	Acute panmyelosis with myelofibrosis, in remission	Diagnosis	ICD-10-CM
C9442	Acute panmyelosis with myelofibrosis, in relapse	Diagnosis	ICD-10-CM
C946	Myelodysplastic disease, not classified	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
C948	Other specified leukemias	Diagnosis	ICD-10-CM
C9480	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C9481	Other specified leukemias, in remission	Diagnosis	ICD-10-CM
C9482	Other specified leukemias, in relapse	Diagnosis	ICD-10-CM
C95	Leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C950	Acute leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C9500	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C9501	Acute leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C9502	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C951	Chronic leukemia of unspecified cell type	Diagnosis	ICD-10-CM
C9510	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C9511	Chronic leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C9512	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C959	Leukemia, unspecified	Diagnosis	ICD-10-CM
C9590	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C9591	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C9592	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C96	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
C960	Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C962	Malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C9620	Malignant mast cell neoplasm, unspecified	Diagnosis	ICD-10-CM
C9621	Aggressive systemic mastocytosis	Diagnosis	ICD-10-CM
C9622	Mast cell sarcoma	Diagnosis	ICD-10-CM
C9629	Other malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C964	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C965	Multifocal and unisystemic Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C966	Unifocal Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C969	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96A	Histiocytic sarcoma	Diagnosis	ICD-10-CM
C96Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D030	Melanoma in situ of lip	Diagnosis	ICD-10-CM
D0310	Melanoma in situ of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D0311	Melanoma in situ of right eyelid, including canthus	Diagnosis	ICD-10-CM
D0312	Melanoma in situ of left eyelid, including canthus	Diagnosis	ICD-10-CM
D0320	Melanoma in situ of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D0321	Melanoma in situ of right ear and external auricular canal	Diagnosis	ICD-10-CM
D0322	Melanoma in situ of left ear and external auricular canal	Diagnosis	ICD-10-CM
D0330	Melanoma in situ of unspecified part of face	Diagnosis	ICD-10-CM
D0339	Melanoma in situ of other parts of face	Diagnosis	ICD-10-CM
D034	Melanoma in situ of scalp and neck	Diagnosis	ICD-10-CM
D0351	Melanoma in situ of anal skin	Diagnosis	ICD-10-CM
D0352	Melanoma in situ of breast (skin) (soft tissue)	Diagnosis	ICD-10-CM
D0359	Melanoma in situ of other part of trunk	Diagnosis	ICD-10-CM
D0360	Melanoma in situ of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D0361	Melanoma in situ of right upper limb, including shoulder	Diagnosis	ICD-10-CM
D0362	Melanoma in situ of left upper limb, including shoulder	Diagnosis	ICD-10-CM
D0370	Melanoma in situ of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D0371	Melanoma in situ of right lower limb, including hip	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
D0372	Melanoma in situ of left lower limb, including hip	Diagnosis	ICD-10-CM
D038	Melanoma in situ of other sites	Diagnosis	ICD-10-CM
D039	Melanoma in situ, unspecified	Diagnosis	ICD-10-CM
D45	Polycythemia vera	Diagnosis	ICD-10-CM
O9A1	Malignant neoplasm complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O9A11	Malignant neoplasm complicating pregnancy	Diagnosis	ICD-10-CM
O9A111	Malignant neoplasm complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O9A112	Malignant neoplasm complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O9A113	Malignant neoplasm complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O9A119	Malignant neoplasm complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O9A12	Malignant neoplasm complicating childbirth	Diagnosis	ICD-10-CM
O9A13	Malignant neoplasm complicating the puerperium	Diagnosis	ICD-10-CM
R9721	Rising PSA following treatment for malignant neoplasm of prostate	Diagnosis	ICD-10-CM

**Cardiovascular and other vascular disease: Congenital heart disease**

P293	Persistent fetal circulation	Diagnosis	ICD-10-CM
P298	Oth cardiovasc disorders originating in the perinatal period	Diagnosis	ICD-10-CM
P2938	Other persistent fetal circulation	Diagnosis	ICD-10-CM
Q20	Congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q21	Congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q22	Congenital malformations of pulmonary and tricuspid valves	Diagnosis	ICD-10-CM
Q23	Congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q24	Other congenital malformations of heart	Diagnosis	ICD-10-CM
Q200	Common arterial trunk	Diagnosis	ICD-10-CM
Q201	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q202	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q203	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q204	Double inlet ventricle	Diagnosis	ICD-10-CM
Q205	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q206	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q208	Oth congenital malform of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q209	Congenital malform of cardiac chambers and connections, unsp	Diagnosis	ICD-10-CM
Q210	Ventricular septal defect	Diagnosis	ICD-10-CM
Q211	Atrial septal defect	Diagnosis	ICD-10-CM
Q212	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q213	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q214	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q218	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q219	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q220	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q221	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q222	Congenital pulmonary valve insufficiency	Diagnosis	ICD-10-CM
Q223	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q224	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q225	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q226	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q228	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
Q229	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q230	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
Q231	Congenital insufficiency of aortic valve	Diagnosis	ICD-10-CM
Q232	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q233	Congenital mitral insufficiency	Diagnosis	ICD-10-CM
Q234	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q238	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q239	Congenital malformation of aortic and mitral valves, unsp	Diagnosis	ICD-10-CM
Q240	Dextrocardia	Diagnosis	ICD-10-CM
Q241	Levocardia	Diagnosis	ICD-10-CM
Q242	Cor triatriatum	Diagnosis	ICD-10-CM
Q243	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q244	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q245	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q246	Congenital heart block	Diagnosis	ICD-10-CM
Q248	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q249	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM
Q250	Patent ductus arteriosus	Diagnosis	ICD-10-CM
Q251	Coarctation of aorta	Diagnosis	ICD-10-CM
Q2521	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q2529	Other atresia of aorta	Diagnosis	ICD-10-CM
Q253	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q2540	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q2541	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q2542	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q2543	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q2544	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q2545	Double aortic arch	Diagnosis	ICD-10-CM
Q2546	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q2547	Right aortic arch	Diagnosis	ICD-10-CM
Q2548	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q2549	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q255	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q256	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q2571	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q2572	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q2579	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q258	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
Q259	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM
Q260	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q261	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q262	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q263	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q264	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q8740	Marfan's syndrome, unspecified	Diagnosis	ICD-10-CM
Q8741	Marfan's syndrome with cardiovascular manifestations	Diagnosis	ICD-10-CM
Q87410	Marfan's syndrome with aortic dilation	Diagnosis	ICD-10-CM
Q87418	Marfan's syndrome with other cardiovascular manifestations	Diagnosis	ICD-10-CM
Q8782	Arterial tortuosity syndrome	Diagnosis	ICD-10-CM
Q900	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q901	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
Q902	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q909	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q910	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q911	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q912	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q913	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q914	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q915	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q916	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q917	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q9381	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q9382	Williams syndrome	Diagnosis	ICD-10-CM
93530	Right heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93531	Combined right heart catheterization and retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93532	Combined right heart catheterization and transeptal left heart catheterization through intact septum with or without retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93533	Combined right heart catheterization and transeptal left heart catheterization through existing septal opening, with or without retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
75573	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease (including 3D image postprocessing, assessment of LV cardiac function, RV structure and function and evaluation of pulmonary artery anatomy)	Procedure	CPT-4
75572	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology (including 3D image postprocessing, assessment of cardiac function, and evaluation of venous structures, if performed)	Procedure	CPT-4
33924	Ligation and takedown of a systemic-to-pulmonary artery shunt, performed in conjunction with a congenital heart procedure (List separately in addition to code for primary procedure)	Procedure	CPT-4
93563	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report, for selective coronary angiography during congenital heart catheterization (List separately in addition to code for primary procedure)	Procedure	CPT-4
93564	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report, for selective opacification of aortocoronary venous or arterial bypass graft(s) (eg, aortocoronary saphenous vein, free radial artery, or free mammary artery)	Procedure	CPT-4
33647	Repair of atrial septal defect and ventricular septal defect, with direct or patch closure	Procedure	CPT-4
33720	Repair sinus of Valsalva aneurysm, with cardiopulmonary bypass	Procedure	CPT-4
33745	Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac cath	Procedure	CPT-4
33746	Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac cath	Procedure	CPT-4

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
33741	Transcatheter atrial septostomy (TAS) for congenital cardiac anomalies to create effective atrial flow, including all imaging guidance by the proceduralist, when performed, any method (eg. Rashkind, Sang-Park, balloon, cutting balloon, blade)	Procedure	CPT-4
93303	Transthoracic echocardiography for congenital cardiac anomalies, complete	Procedure	CPT-4
93304	Transthoracic echocardiography for congenital cardiac anomalies, follow-up or limited	Procedure	CPT-4
93316	Transesophageal echocardiography for congenital cardiac anomalies, placement of transesophageal probe only, image acquisition, interpretation and report only	Procedure	CPT-4
93317	Transesophageal echocardiography for congenital cardiac anomalies	Procedure	CPT-4
93315	Transesophageal echocardiography for congenital cardiac anomalies, including probe placement, image acquisition, interpretation and report	Procedure	CPT-4
93581	Percutaneous transcatheter closure of a congenital ventricular septal defect with implant	Procedure	CPT-4
93580	Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant	Procedure	CPT-4
02Q50ZZ	Repair Atrial Septum, Open Approach	Procedure	CPT-4
02U507Z	Supplement Atrial Septum with Autologous Tissue Substitute, Open Approach	Procedure	CPT-4
02U50JZ	Supplement Atrial Septum with Synthetic Substitute, Open Approach	Procedure	CPT-4
02U53JZ	Supplement Atrial Septum with Synthetic Substitute, Percutaneous Approach	Procedure	CPT-4
02QM0ZZ	Repair Ventricular Septum, Open Approach	Procedure	CPT-4
02UM07Z	Supplement Ventricular Septum with Autologous Tissue Substitute, Open Approach	Procedure	CPT-4
02UM0JZ	Supplement Ventricular Septum with Synthetic Substitute, Open Approach	Procedure	CPT-4
02UM3JZ	Supplement Ventricular Septum with Synthetic Substitute, Percutaneous Approach	Procedure	CPT-4

**Cardiovascular and other vascular disease: Cardiovascular disease**

I11	Hypertensive heart disease	Diagnosis	ICD-10-CM
I110	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I119	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I24	Other acute ischemic heart diseases	Diagnosis	ICD-10-CM
I248	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I249	Acute ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25	Chronic ischemic heart disease	Diagnosis	ICD-10-CM
I251	Atherosclerotic heart disease of native coronary artery	Diagnosis	ICD-10-CM
I2510	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I2511	Atherosclerotic heart disease of native coronary artery with angina pectoris	Diagnosis	ICD-10-CM
I25110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I258	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I2589	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I259	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I271	Kyphoscoliotic heart disease	Diagnosis	ICD-10-CM
I51	Complications and ill-defined descriptions of heart disease	Diagnosis	ICD-10-CM
I518	Other ill-defined heart diseases	Diagnosis	ICD-10-CM
I5189	Other ill-defined heart diseases	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
I519	Heart disease, unspecified	Diagnosis	ICD-10-CM
I2101	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I2102	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I2109	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I2111	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I2119	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I2121	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I240	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I254	Coronary artery aneurysm and dissection	Diagnosis	ICD-10-CM
I2541	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I2542	Coronary artery dissection	Diagnosis	ICD-10-CM
I257	Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I2570	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris	Diagnosis	ICD-10-CM
I25700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM
I25701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2571	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2572	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2573	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I25731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2575	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2576	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2579	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I2581	Atherosclerosis of other coronary vessels without angina pectoris	Diagnosis	ICD-10-CM
I25810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I2582	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I2583	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I2584	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I200	Unstable angina	Diagnosis	ICD-10-CM
I201	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I208	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I209	Angina pectoris, unspecified	Diagnosis	ICD-10-CM
I2129	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I213	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I214	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I219	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I21A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I220	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I221	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I222	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I228	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I229	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I230	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I231	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I232	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I233	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I234	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I235	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I236	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I237	Postinfarction angina	Diagnosis	ICD-10-CM
I238	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I241	Dressler's syndrome	Diagnosis	ICD-10-CM
I252	Old myocardial infarction	Diagnosis	ICD-10-CM
I255	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I256	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I462	Cardiac arrest due to underlying cardiac condition	Diagnosis	ICD-10-CM
I468	Cardiac arrest due to other underlying condition	Diagnosis	ICD-10-CM
I469	Cardiac arrest, cause unspecified	Diagnosis	ICD-10-CM
I472	Ventricular tachycardia	Diagnosis	ICD-10-CM
I4901	Ventricular fibrillation	Diagnosis	ICD-10-CM
I4902	Ventricular flutter	Diagnosis	ICD-10-CM
I501	Left ventricular failure, unspecified	Diagnosis	ICD-10-CM
I5020	Unspecified systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5021	Acute systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5022	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5023	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5030	Unspecified diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5031	Acute diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5032	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5033	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50810	Right heart failure, unspecified	Diagnosis	ICD-10-CM
I50811	Acute right heart failure	Diagnosis	ICD-10-CM
I50812	Chronic right heart failure	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I50813	Acute on chronic right heart failure	Diagnosis	ICD-10-CM
I50814	Right heart failure due to left heart failure	Diagnosis	ICD-10-CM
I5082	Biventricular heart failure	Diagnosis	ICD-10-CM
I5083	High output heart failure	Diagnosis	ICD-10-CM
I5084	End stage heart failure	Diagnosis	ICD-10-CM
I5089	Other heart failure	Diagnosis	ICD-10-CM
I509	Heart failure, unspecified	Diagnosis	ICD-10-CM
I52	Other heart disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
I6000	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I6001	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I6002	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I6010	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I6011	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	Diagnosis	ICD-10-CM
I6012	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Diagnosis	ICD-10-CM
I602	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM
I6030	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Diagnosis	ICD-10-CM
I6031	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Diagnosis	ICD-10-CM
I6032	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Diagnosis	ICD-10-CM
I604	Nontraumatic subarachnoid hemorrhage from basilar artery	Diagnosis	ICD-10-CM
I6050	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	Diagnosis	ICD-10-CM
I6051	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Diagnosis	ICD-10-CM
I6052	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Diagnosis	ICD-10-CM
I606	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Diagnosis	ICD-10-CM
I607	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Diagnosis	ICD-10-CM
I608	Other nontraumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
I609	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM
I610	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Diagnosis	ICD-10-CM
I611	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Diagnosis	ICD-10-CM
I612	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Diagnosis	ICD-10-CM
I613	Nontraumatic intracerebral hemorrhage in brain stem	Diagnosis	ICD-10-CM
I614	Nontraumatic intracerebral hemorrhage in cerebellum	Diagnosis	ICD-10-CM
I615	Nontraumatic intracerebral hemorrhage, intraventricular	Diagnosis	ICD-10-CM
I616	Nontraumatic intracerebral hemorrhage, multiple localized	Diagnosis	ICD-10-CM
I618	Other nontraumatic intracerebral hemorrhage	Diagnosis	ICD-10-CM
I619	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I6200	Nontraumatic subdural hemorrhage, unspecified	Diagnosis	ICD-10-CM
I6201	Nontraumatic acute subdural hemorrhage	Diagnosis	ICD-10-CM
I6202	Nontraumatic subacute subdural hemorrhage	Diagnosis	ICD-10-CM
I6203	Nontraumatic chronic subdural hemorrhage	Diagnosis	ICD-10-CM
I621	Nontraumatic extradural hemorrhage	Diagnosis	ICD-10-CM
I629	Nontraumatic intracranial hemorrhage, unspecified	Diagnosis	ICD-10-CM
I6501	Occlusion and stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I6502	Occlusion and stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I6503	Occlusion and stenosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I6509	Occlusion and stenosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I651	Occlusion and stenosis of basilar artery	Diagnosis	ICD-10-CM
I6521	Occlusion and stenosis of right carotid artery	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I6522	Occlusion and stenosis of left carotid artery	Diagnosis	ICD-10-CM
I6523	Occlusion and stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I6529	Occlusion and stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I658	Occlusion and stenosis of other precerebral arteries	Diagnosis	ICD-10-CM
I659	Occlusion and stenosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I6601	Occlusion and stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I6602	Occlusion and stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I6603	Occlusion and stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I6609	Occlusion and stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I6611	Occlusion and stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I6612	Occlusion and stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I6613	Occlusion and stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I6619	Occlusion and stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I6621	Occlusion and stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I6622	Occlusion and stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I6623	Occlusion and stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I6629	Occlusion and stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I663	Occlusion and stenosis of cerebellar arteries	Diagnosis	ICD-10-CM
I668	Occlusion and stenosis of other cerebral arteries	Diagnosis	ICD-10-CM
I669	Occlusion and stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I6789	Other cerebrovascular disease	Diagnosis	ICD-10-CM
I700	Atherosclerosis of aorta	Diagnosis	ICD-10-CM
T82211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82212A	Displacement of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82213A	Leakage of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82218A	Other mechanical complication of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
Z951	Presence of aortocoronary bypass graft	Diagnosis	ICD-10-CM
Z955	Presence of coronary angioplasty implant and graft	Diagnosis	ICD-10-CM
I0981	Rheumatic heart failure	Diagnosis	ICD-10-CM
I130	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
I132	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
I50	Heart failure	Diagnosis	ICD-10-CM
I502	Systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I503	Diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I504	Combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I508	Other heart failure	Diagnosis	ICD-10-CM
I5081	Right heart failure	Diagnosis	ICD-10-CM
I9713	Postprocedural heart failure	Diagnosis	ICD-10-CM
I97130	Postprocedural heart failure following cardiac surgery	Diagnosis	ICD-10-CM
I97131	Postprocedural heart failure following other surgery	Diagnosis	ICD-10-CM
0210083	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210088	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210089	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
021008C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021008F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021008W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210093	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0210098	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0210099	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02100A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02100KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02100KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02100KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02100Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02100Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02100ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02100ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0210344	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02103D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0210444	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210483	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210488	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210489	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210493	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210498	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210499	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02104AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211083	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211088	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211089	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021108C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
021108F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021108W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211093	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0211098	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0211099	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02110A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02110KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02110KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02110Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02110Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02110ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02110ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0211344	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device. Percutaneous Approach	Procedure	ICD-10-PCS
02113D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0211444	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211483	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211488	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211489	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211493	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211498	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211499	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue. Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02114AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212083	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0212088	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0212089	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021208C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021208F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
021208W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
0212093	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
0212098	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
0212099	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021209C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021209F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021209W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02120A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02120A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02120AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02120AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02120AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02120J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02120JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02120K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02120K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02120KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02120KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02120Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02120Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02120ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02120ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0212344	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02123D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0212444	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212483	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212488	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212489	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212493	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212498	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212499	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02124D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213083	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
0213093	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
0213098	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
0213099	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021309C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021309F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue. Open Approach	Procedure	ICD-10-PCS
021309W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02130A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02130A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02130A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02130AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02130AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue. Open Approach	Procedure	ICD-10-PCS
02130AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02130J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02130J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02130JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02130JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute. Open Approach	Procedure	ICD-10-PCS
02130JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute. Open Approach	Procedure	ICD-10-PCS
02130Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02130Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02130Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02130ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02130ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0213344	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02133D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0213444	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213483	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213488	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213489	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213493	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213498	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213499	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02134D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270046	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027004Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0270056	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027005Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0270066	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027006Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
0270076	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027007Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02700ZZ	Dilation of Coronary Artery, One Artery, Open Approach	Procedure	ICD-10-PCS
0270346	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027034Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0270356	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027035Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0270366	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027036Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0270376	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027037Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02703F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02703ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0270446	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027044Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270456	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027045Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270466	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027046Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270476	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027047Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02704TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271046	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027104Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0271056	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027105Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0271066	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027106Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0271076	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027107Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02710ZZ	Dilation of Coronary Artery, Two Arteries, Open Approach	Procedure	ICD-10-PCS
0271346	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027134Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0271356	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
027135Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0271366	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027136Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0271376	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027137Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02713ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0271446	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027144Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271456	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027145Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271466	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027146Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271476	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027147Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02714D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272046	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027204Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0272056	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027205Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0272066	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027206Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0272076	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027207Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02720FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02720ZZ	Dilation of Coronary Artery, Three Arteries, Open Approach	Procedure	ICD-10-PCS
0272346	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027234Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0272356	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027235Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0272366	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027236Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0272376	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027237Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02723ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0272446	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027244Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272456	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027245Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272466	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027246Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272476	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027247Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273046	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027304Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0273056	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027305Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
0273066	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
027306Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
0273076	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
027307Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
02730D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
02730EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
02730FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices. Open Approach	Procedure	ICD-10-PCS
02730GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device. Open Approach	Procedure	ICD-10-PCS
02730TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02730ZZ	Dilation of Coronary Artery, Four or More Arteries, Open Approach	Procedure	ICD-10-PCS
0273346	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device. Percutaneous Approach	Procedure	ICD-10-PCS
027334Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0273356	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices. Percutaneous Approach	Procedure	ICD-10-PCS
027335Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0273366	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices. Percutaneous Approach	Procedure	ICD-10-PCS
027336Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices. Percutaneous Approach	Procedure	ICD-10-PCS
0273376	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices. Percutaneous Approach	Procedure	ICD-10-PCS
027337Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices. Percutaneous Approach	Procedure	ICD-10-PCS
02733D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02733DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02733ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0273446	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027344Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273456	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027345Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273466	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027346Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273476	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027347Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02734G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C00Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C00ZZ	Extirpation of Matter from Coronary Artery, One Artery, Open Approach	Procedure	ICD-10-PCS
02C03Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C03ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Approach	Procedure	ICD-10-PCS
02C04Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C04ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C10Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C10ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Open Approach	Procedure	ICD-10-PCS
02C13Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C13ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C14Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C14ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C20Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C20ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Open Approach	Procedure	ICD-10-PCS
02C23Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C23ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C24Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C24ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C30Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C30ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Open Approach	Procedure	ICD-10-PCS
02C33Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C33ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C34Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
02C34ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
3E07017	Introduction of Other Thrombolytic into Coronary Artery, Open Approach	Procedure	ICD-10-PCS
3E070PZ	Introduction of Platelet Inhibitor into Coronary Artery, Open Approach	Procedure	ICD-10-PCS
3E07317	Introduction of Other Thrombolytic into Coronary Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E073PZ	Introduction of Platelet Inhibitor into Coronary Artery, Percutaneous Approach	Procedure	ICD-10-PCS
G8451	Beta-blocker therapy for lvef < 40% not prescribed for reasons documented by the clinician (e.g., low blood pressure, fluid overload, asthma, patients recently treated with an intravenous positive inotropic agent, allergy, intolerance, other medical reasons, patient declined, other patient reasons, or other reasons attributable to the healthcare system)	Procedure	HCPCS
G8694	Left ventricular ejection fraction (lvef) < 40%	Procedure	HCPCS
G8738	Left ventricular ejection fraction (lvef) < 40% or documentation of severely or moderately depressed left ventricular systolic function	Procedure	HCPCS
G8923	Left ventricular ejection fraction (lvef) < 40% or documentation of moderately or severely depressed left ventricular systolic function	Procedure	HCPCS
G8934	Left ventricular ejection fraction (lvef) <40% or documentation of moderately or severely depressed left ventricular systolic function	Procedure	HCPCS
T8622	Heart transplant failure	Diagnosis	ICD-10-CM
Z951	Presence of aortocoronary bypass graft	Diagnosis	ICD-10-CM
Z955	Presence of coronary angioplasty implant and graft	Diagnosis	ICD-10-CM
Z9861	Coronary angioplasty status	Diagnosis	ICD-10-CM
I42	Cardiomyopathy	Diagnosis	ICD-10-CM
I420	Dilated cardiomyopathy	Diagnosis	ICD-10-CM
I421	Obstructive hypertrophic cardiomyopathy	Diagnosis	ICD-10-CM
I422	Other hypertrophic cardiomyopathy	Diagnosis	ICD-10-CM
I425	Other restrictive cardiomyopathy	Diagnosis	ICD-10-CM
I426	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
I427	Cardiomyopathy due to drug and external agent	Diagnosis	ICD-10-CM
I428	Other cardiomyopathies	Diagnosis	ICD-10-CM
I429	Cardiomyopathy, unspecified	Diagnosis	ICD-10-CM
I43	Cardiomyopathy in diseases classified elsewhere	Diagnosis	ICD-10-CM

**Cardiovascular and other vascular disease: Other vascular disease**

I27	Other pulmonary heart diseases	Diagnosis	ICD-10-CM
I270	Primary pulmonary hypertension	Diagnosis	ICD-10-CM
I602	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM
I6020	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I6021	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I6022	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I6300	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I6310	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM
I6320	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I6322	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I6330	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I6340	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I6350	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I638	Other cerebral infarction	Diagnosis	ICD-10-CM
I6381	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I6389	Other cerebral infarction	Diagnosis	ICD-10-CM
I70	Atherosclerosis	Diagnosis	ICD-10-CM
I700	Atherosclerosis of aorta	Diagnosis	ICD-10-CM
I701	Atherosclerosis of renal artery	Diagnosis	ICD-10-CM
I702	Atherosclerosis of native arteries of the extremities	Diagnosis	ICD-10-CM
I7020	Unspecified atherosclerosis of native arteries of extremities	Diagnosis	ICD-10-CM
I70201	Unspecified atherosclerosis of native arteries of extremities, right leg	Diagnosis	ICD-10-CM
I70202	Unspecified atherosclerosis of native arteries of extremities, left leg	Diagnosis	ICD-10-CM
I70203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs	Diagnosis	ICD-10-CM
I70208	Unspecified atherosclerosis of native arteries of extremities, other extremity	Diagnosis	ICD-10-CM
I70209	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7021	Atherosclerosis of native arteries of extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70218	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70219	Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7022	Atherosclerosis of native arteries of extremities with rest pain	Diagnosis	ICD-10-CM
I70221	Atherosclerosis of native arteries of extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70222	Atherosclerosis of native arteries of extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70228	Atherosclerosis of native arteries of extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70229	Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7023	Atherosclerosis of native arteries of right leg with ulceration	Diagnosis	ICD-10-CM
I70231	Atherosclerosis of native arteries of right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70232	Atherosclerosis of native arteries of right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70233	Atherosclerosis of native arteries of right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70239	Atherosclerosis of native arteries of right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7024	Atherosclerosis of native arteries of left leg with ulceration	Diagnosis	ICD-10-CM
I70241	Atherosclerosis of native arteries of left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70242	Atherosclerosis of native arteries of left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70243	Atherosclerosis of native arteries of left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70249	Atherosclerosis of native arteries of left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7025	Atherosclerosis of native arteries of other extremities with ulceration	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I7026	Atherosclerosis of native arteries of extremities with gangrene	Diagnosis	ICD-10-CM
I70261	Atherosclerosis of native arteries of extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70262	Atherosclerosis of native arteries of extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70268	Atherosclerosis of native arteries of extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7029	Other atherosclerosis of native arteries of extremities	Diagnosis	ICD-10-CM
I70291	Other atherosclerosis of native arteries of extremities, right leg	Diagnosis	ICD-10-CM
I70292	Other atherosclerosis of native arteries of extremities, left leg	Diagnosis	ICD-10-CM
I70293	Other atherosclerosis of native arteries of extremities, bilateral legs	Diagnosis	ICD-10-CM
I70298	Other atherosclerosis of native arteries of extremities, other extremity	Diagnosis	ICD-10-CM
I70299	Other atherosclerosis of native arteries of extremities, unspecified extremity	Diagnosis	ICD-10-CM
I703	Atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I7030	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70301	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70302	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70303	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70308	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70309	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7031	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70319	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7032	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70329	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7033	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70331	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70332	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70333	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70334	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70335	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70338	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70339	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7034	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70341	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70342	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70343	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70344	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70345	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70348	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70349	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7035	Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I7036	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70361	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70362	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70363	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70368	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70369	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7039	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70399	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I704	Atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I7040	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70409	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7041	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70419	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7042	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70429	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7043	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70431	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70432	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70433	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70434	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I70435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70439	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7044	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70441	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70442	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70443	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70444	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70449	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7045	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I7046	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70461	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70462	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70463	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70469	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7049	Other atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70499	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I705	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I7050	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70509	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7051	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities intermittent claudication	Diagnosis	ICD-10-CM
I70511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70519	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7052	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70529	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7053	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70531	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70532	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70533	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70534	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70539	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7054	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I70541	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70542	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70543	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70544	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70545	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70548	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70549	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7055	Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I7056	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70561	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70562	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70563	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70568	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70569	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7059	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70591	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70592	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70593	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70598	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70599	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I706	Atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I7060	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70601	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70602	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70603	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70608	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70609	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7061	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70619	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7062	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70629	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7063	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70631	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70632	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70633	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70634	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70635	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70638	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70639	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7064	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70641	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70642	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70643	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70644	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70645	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70648	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70649	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7065	Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I7066	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70661	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70662	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70663	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70668	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70669	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7069	Other atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70691	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70699	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I707	Atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I7070	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70701	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70702	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70703	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70708	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70709	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I7071	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70719	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I7072	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I70721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70729	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I7073	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70739	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7074	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70749	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I7075	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I7076	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70769	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I7079	Other atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM



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Code	Description	Code	
		Category	Code Type
I70792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70799	Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I708	Atherosclerosis of other arteries	Diagnosis	ICD-10-CM
I709	Other and unspecified atherosclerosis	Diagnosis	ICD-10-CM
I7090	Unspecified atherosclerosis	Diagnosis	ICD-10-CM
I7091	Generalized atherosclerosis	Diagnosis	ICD-10-CM
I7092	Chronic total occlusion of artery of the extremities	Diagnosis	ICD-10-CM
I71	Aortic aneurysm and dissection	Diagnosis	ICD-10-CM
I710	Dissection of aorta	Diagnosis	ICD-10-CM
I7100	Dissection of unspecified site of aorta	Diagnosis	ICD-10-CM
I7101	Dissection of thoracic aorta	Diagnosis	ICD-10-CM
I7102	Dissection of abdominal aorta	Diagnosis	ICD-10-CM
I7103	Dissection of thoracoabdominal aorta	Diagnosis	ICD-10-CM
I711	Thoracic aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I712	Thoracic aortic aneurysm, without rupture	Diagnosis	ICD-10-CM
I713	Abdominal aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I714	Abdominal aortic aneurysm, without rupture	Diagnosis	ICD-10-CM
I715	Thoracoabdominal aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I716	Thoracoabdominal aortic aneurysm, without rupture	Diagnosis	ICD-10-CM
I718	Aortic aneurysm of unspecified site, ruptured	Diagnosis	ICD-10-CM
I719	Aortic aneurysm of unspecified site, without rupture	Diagnosis	ICD-10-CM
I72	Other aneurysm	Diagnosis	ICD-10-CM
I720	Aneurysm of carotid artery	Diagnosis	ICD-10-CM
I721	Aneurysm of artery of upper extremity	Diagnosis	ICD-10-CM
I722	Aneurysm of renal artery	Diagnosis	ICD-10-CM
I723	Aneurysm of iliac artery	Diagnosis	ICD-10-CM
I724	Aneurysm of artery of lower extremity	Diagnosis	ICD-10-CM
I725	Aneurysm of other precerebral arteries	Diagnosis	ICD-10-CM
I726	Aneurysm of vertebral artery	Diagnosis	ICD-10-CM
I728	Aneurysm of other specified arteries	Diagnosis	ICD-10-CM
I729	Aneurysm of unspecified site	Diagnosis	ICD-10-CM
I73	Other peripheral vascular diseases	Diagnosis	ICD-10-CM
I731	Thromboangiitis obliterans [Buerger's disease]	Diagnosis	ICD-10-CM
I7389	Other specified peripheral vascular diseases	Diagnosis	ICD-10-CM
I739	Peripheral vascular disease, unspecified	Diagnosis	ICD-10-CM
I74	Arterial embolism and thrombosis	Diagnosis	ICD-10-CM
I740	Embolism and thrombosis of abdominal aorta	Diagnosis	ICD-10-CM
I7401	Saddle embolus of abdominal aorta	Diagnosis	ICD-10-CM
I7409	Other arterial embolism and thrombosis of abdominal aorta	Diagnosis	ICD-10-CM
I741	Embolism and thrombosis of other and unspecified parts of aorta	Diagnosis	ICD-10-CM
I7410	Embolism and thrombosis of unspecified parts of aorta	Diagnosis	ICD-10-CM
I7411	Embolism and thrombosis of thoracic aorta	Diagnosis	ICD-10-CM
I7419	Embolism and thrombosis of other parts of aorta	Diagnosis	ICD-10-CM
I742	Embolism and thrombosis of arteries of the upper extremities	Diagnosis	ICD-10-CM
I743	Embolism and thrombosis of arteries of the lower extremities	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
I744	Embolism and thrombosis of arteries of extremities, unspecified	Diagnosis	ICD-10-CM
I745	Embolism and thrombosis of iliac artery	Diagnosis	ICD-10-CM
I748	Embolism and thrombosis of other arteries	Diagnosis	ICD-10-CM
I749	Embolism and thrombosis of unspecified artery	Diagnosis	ICD-10-CM
I75	Atheroembolism	Diagnosis	ICD-10-CM
I750	Atheroembolism of extremities	Diagnosis	ICD-10-CM
I7501	Atheroembolism of upper extremity	Diagnosis	ICD-10-CM
I75011	Atheroembolism of right upper extremity	Diagnosis	ICD-10-CM
I75012	Atheroembolism of left upper extremity	Diagnosis	ICD-10-CM
I75013	Atheroembolism of bilateral upper extremities	Diagnosis	ICD-10-CM
I75019	Atheroembolism of unspecified upper extremity	Diagnosis	ICD-10-CM
I7502	Atheroembolism of lower extremity	Diagnosis	ICD-10-CM
I75021	Atheroembolism of right lower extremity	Diagnosis	ICD-10-CM
I75022	Atheroembolism of left lower extremity	Diagnosis	ICD-10-CM
I75023	Atheroembolism of bilateral lower extremities	Diagnosis	ICD-10-CM
I75029	Atheroembolism of unspecified lower extremity	Diagnosis	ICD-10-CM
I758	Atheroembolism of other sites	Diagnosis	ICD-10-CM
I7581	Atheroembolism of kidney	Diagnosis	ICD-10-CM
I7589	Atheroembolism of other site	Diagnosis	ICD-10-CM
I76	Septic arterial embolism	Diagnosis	ICD-10-CM
I77	Other disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I770	Arteriovenous fistula, acquired	Diagnosis	ICD-10-CM
I771	Stricture of artery	Diagnosis	ICD-10-CM
I772	Rupture of artery	Diagnosis	ICD-10-CM
I773	Arterial fibromuscular dysplasia	Diagnosis	ICD-10-CM
I774	Celiac artery compression syndrome	Diagnosis	ICD-10-CM
I775	Necrosis of artery	Diagnosis	ICD-10-CM
I776	Arteritis, unspecified	Diagnosis	ICD-10-CM
I777	Other arterial dissection	Diagnosis	ICD-10-CM
I7770	Dissection of unspecified artery	Diagnosis	ICD-10-CM
I7771	Dissection of carotid artery	Diagnosis	ICD-10-CM
I7772	Dissection of iliac artery	Diagnosis	ICD-10-CM
I7773	Dissection of renal artery	Diagnosis	ICD-10-CM
I7774	Dissection of vertebral artery	Diagnosis	ICD-10-CM
I7775	Dissection of other precerebral arteries	Diagnosis	ICD-10-CM
I7776	Dissection of artery of upper extremity	Diagnosis	ICD-10-CM
I7777	Dissection of artery of lower extremity	Diagnosis	ICD-10-CM
I7779	Dissection of other specified artery	Diagnosis	ICD-10-CM
I778	Other specified disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I7781	Aortic ectasia	Diagnosis	ICD-10-CM
I77810	Thoracic aortic ectasia	Diagnosis	ICD-10-CM
I77811	Abdominal aortic ectasia	Diagnosis	ICD-10-CM
I77812	Thoracoabdominal aortic ectasia	Diagnosis	ICD-10-CM
I77819	Aortic ectasia, unspecified site	Diagnosis	ICD-10-CM
I7789	Other specified disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I779	Disorder of arteries and arterioles, unspecified	Diagnosis	ICD-10-CM
I78	Diseases of capillaries	Diagnosis	ICD-10-CM
I780	Hereditary hemorrhagic telangiectasia	Diagnosis	ICD-10-CM
I8221	Embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I82210	Acute embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM
I82211	Chronic embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM
I8222	Embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I82220	Acute embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I82221	Chronic embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I8700	Postthrombotic syndrome without complications	Diagnosis	ICD-10-CM
I87001	Postthrombotic syndrome without complications of right lower extremity	Diagnosis	ICD-10-CM
I87002	Postthrombotic syndrome without complications of left lower extremity	Diagnosis	ICD-10-CM
I87003	Postthrombotic syndrome without complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87009	Postthrombotic syndrome without complications of unspecified extremity	Diagnosis	ICD-10-CM
I8701	Postthrombotic syndrome with ulcer	Diagnosis	ICD-10-CM
I87011	Postthrombotic syndrome with ulcer of right lower extremity	Diagnosis	ICD-10-CM
I87012	Postthrombotic syndrome with ulcer of left lower extremity	Diagnosis	ICD-10-CM
I87013	Postthrombotic syndrome with ulcer of bilateral lower extremity	Diagnosis	ICD-10-CM
I87019	Postthrombotic syndrome with ulcer of unspecified lower extremity	Diagnosis	ICD-10-CM
I8702	Postthrombotic syndrome with inflammation	Diagnosis	ICD-10-CM
I87021	Postthrombotic syndrome with inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87022	Postthrombotic syndrome with inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87023	Postthrombotic syndrome with inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87029	Postthrombotic syndrome with inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I8703	Postthrombotic syndrome with ulcer and inflammation	Diagnosis	ICD-10-CM
I87031	Postthrombotic syndrome with ulcer and inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87032	Postthrombotic syndrome with ulcer and inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87033	Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87039	Postthrombotic syndrome with ulcer and inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I8709	Postthrombotic syndrome with other complications	Diagnosis	ICD-10-CM
I87091	Postthrombotic syndrome with other complications of right lower extremity	Diagnosis	ICD-10-CM
I87092	Postthrombotic syndrome with other complications of left lower extremity	Diagnosis	ICD-10-CM
I87093	Postthrombotic syndrome with other complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87099	Postthrombotic syndrome with other complications of unspecified lower extremity	Diagnosis	ICD-10-CM
<b>Endocrine disorders: Diabetes mellitus</b>			
E0800	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E0801	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E0810	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E0811	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E0821	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E0822	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E0829	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E083211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E083212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E083213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E083219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E083291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E083292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E083293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E083299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E083311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E083312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E083313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E083319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E083391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E083392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E083393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E083399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E083411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E083412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E083413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E083419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E083491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E083492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E083493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E083499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E083511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E083512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E083513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E083519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E083521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E083522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E083523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E083529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E083531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E083532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E083533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E083539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E083541	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
E083542	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
E083543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E083549	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
E083551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E083552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E083553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E083559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E083591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E083592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E083593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E083599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E0836	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E0837X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E0837X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E0837X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E0837X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E0839	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E0840	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E0841	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E0842	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E0843	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E0844	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E0849	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E0851	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E0852	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E0859	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E0865	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E0869	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E088	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E089	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E0900	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E0901	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E0910	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E0911	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E0921	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E0922	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E0929	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E093211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E093212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E093213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E093219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E093291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E093292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E093293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E093299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E093311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E093312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E093313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E093319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E093391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E093392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E093393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E093399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E093411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E093412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E093413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E093419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E093491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E093492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E093493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E093499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E093511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E093512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E093513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E093519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E093521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E093522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E093523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E093529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E093531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E093532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E093533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E093539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E093541	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
E093542	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
E093543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E093549	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
E093551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E093552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E093553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E093559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E093591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E093592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E093593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E093599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E0936	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E0937X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E0937X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E0937X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E0937X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E0939	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E0940	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
E0941	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E0942	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E0943	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E0944	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E0949	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E0951	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E0952	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E0959	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E0965	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E0969	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E098	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E099	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1010	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1011	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1021	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1029	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E103211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E103291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E103311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E103391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E103411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E103491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E103511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E1036	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1037X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1037X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E1037X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1037X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E1039	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1041	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1043	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1044	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1049	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1051	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1052	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1059	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1065	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1069	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E108	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E109	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1100	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E1110	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1111	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1121	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E1122	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1129	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E113211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E113291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E113311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E113391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E113411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E113412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E113491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E113511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E113522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E113523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E113529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E113531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E113532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E113533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E113539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E113541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E113542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E113543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E113549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E113551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E113552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E113553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E113559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E113591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1136	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1137X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1137X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E1137X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1137X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E1139	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1140	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1141	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1142	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1143	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1144	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1149	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1151	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1152	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1159	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1165	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1169	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E118	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E119	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E1300	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E1301	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E1310	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1311	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1321	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1322	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1329	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E133211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E133291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E133311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E133391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E133393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E133411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E133491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E133511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E133522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E133523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E133529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E133531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E133532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E133533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E133539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E133541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E133542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E133543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E133549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E133551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E133552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E133553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E133559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E1336	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1339	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1340	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1341	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1342	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1343	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1344	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1349	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1351	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1352	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1359	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1365	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1369	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E138	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E139	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
E080	Diabetes mellitus due to underlying condition with hyperosmolarity	Diagnosis	ICD-10-CM
E081	Diabetes mellitus due to underlying condition with ketoacidosis	Diagnosis	ICD-10-CM
E082	Diabetes mellitus due to underlying condition with kidney complications	Diagnosis	ICD-10-CM
E083	Diabetes mellitus due to underlying condition with ophthalmic complications	Diagnosis	ICD-10-CM
E0831	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E0832	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0833	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0834	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0835	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08352	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E08353	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E08354	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E08355	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0837	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E084	Diabetes mellitus due to underlying condition with neurological complications	Diagnosis	ICD-10-CM
E085	Diabetes mellitus due to underlying condition with circulatory complications	Diagnosis	ICD-10-CM
E086	Diabetes mellitus due to underlying condition with other specified complications	Diagnosis	ICD-10-CM
E0861	Diabetes mellitus due to underlying condition with diabetic arthropathy	Diagnosis	ICD-10-CM
E0862	Diabetes mellitus due to underlying condition with skin complications	Diagnosis	ICD-10-CM
E0863	Diabetes mellitus due to underlying condition with oral complications	Diagnosis	ICD-10-CM
E0864	Diabetes mellitus due to underlying condition with hypoglycemia	Diagnosis	ICD-10-CM
E090	Drug or chemical induced diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E091	Drug or chemical induced diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E092	Drug or chemical induced diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E093	Drug or chemical induced diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E0931	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E0932	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0933	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0934	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0935	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09352	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E09353	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E09354	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E09355	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E0937	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E094	Drug or chemical induced diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E095	Drug or chemical induced diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E096	Drug or chemical induced diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E0961	Drug or chemical induced diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E0962	Drug or chemical induced diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E0963	Drug or chemical induced diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E0964	Drug or chemical induced diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E101	Type 1 diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E102	Type 1 diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E103	Type 1 diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E1031	Type 1 diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E1032	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1033	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1034	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1035	Type 1 diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10352	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E103521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E103522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E103523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E103529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10353	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E103531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E103532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E103533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E103539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10354	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E103541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E103542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E103543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E103549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E10355	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E103551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E103552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E103553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E103559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E103591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1037	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E104	Type 1 diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E105	Type 1 diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E106	Type 1 diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E1061	Type 1 diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E1062	Type 1 diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E1063	Type 1 diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E1064	Type 1 diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E110	Type 2 diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E111	Type 2 diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E112	Type 2 diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E113	Type 2 diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E1131	Type 2 diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E1132	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1133	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1134	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1135	Type 2 diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11352	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E11353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E11354	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E11355	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1137	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E114	Type 2 diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E115	Type 2 diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E116	Type 2 diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E1161	Type 2 diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E1162	Type 2 diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E1163	Type 2 diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E1164	Type 2 diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E130	Other specified diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E131	Other specified diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E132	Other specified diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
E133	Other specified diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E1331	Other specified diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E1332	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1333	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1334	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E1335	Other specified diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13352	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E13353	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E13354	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E13355	Other specified diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E133591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1337	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E1337X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment. right eye	Diagnosis	ICD-10-CM
E1337X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment. left eye	Diagnosis	ICD-10-CM
E1337X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment. bilateral	Diagnosis	ICD-10-CM
E1337X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment. unspecified eye	Diagnosis	ICD-10-CM
E134	Other specified diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E135	Other specified diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E136	Other specified diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E1361	Other specified diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E1362	Other specified diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E1363	Other specified diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E1364	Other specified diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2401	Pre-existing type 1 diabetes mellitus, in pregnancy	Diagnosis	ICD-10-CM
O240	Pre-existing type 1 diabetes mellitus, in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2403	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2431	Unspecified pre-existing diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
O243	Unspecified pre-existing diabetes mellitus in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2433	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O2493	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O2491	Unspecified diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O24819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
E08	Diabetes mellitus due to underlying condition	Diagnosis	ICD-10-CM
E09	Drug or chemical induced diabetes mellitus	Diagnosis	ICD-10-CM
O240	Pre-existing type 1 diabetes mellitus, in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O2401	Pre-existing type 1 diabetes mellitus, in pregnancy	Diagnosis	ICD-10-CM
O241	Pre-existing type 2 diabetes mellitus, in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O2411	Pre-existing type 2 diabetes mellitus, in pregnancy	Diagnosis	ICD-10-CM
O243	Unspecified pre-existing diabetes mellitus in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O2431	Unspecified pre-existing diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O2441	Gestational diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O2442	Gestational diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2443	Gestational diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O249	Unspecified diabetes mellitus in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O2491	Unspecified diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O24011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2403	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2413	Pre-existing type 2 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2433	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24410	Gestational diabetes mellitus in pregnancy, diet controlled	Diagnosis	ICD-10-CM
O24414	Gestational diabetes mellitus in pregnancy, insulin controlled	Diagnosis	ICD-10-CM
O24415	Gestational diabetes mellitus in pregnancy, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O24419	Gestational diabetes mellitus in pregnancy, unspecified control	Diagnosis	ICD-10-CM
O24420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O24430	Gestational diabetes mellitus in the puerperium, diet controlled	Diagnosis	ICD-10-CM
O24434	Gestational diabetes mellitus in the puerperium, insulin controlled	Diagnosis	ICD-10-CM
O24435	Gestational diabetes mellitus in puerperium, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24439	Gestational diabetes mellitus in the puerperium, unspecified control	Diagnosis	ICD-10-CM
O24811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2483	Other pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2493	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM

**Endocrine disorders: Obesity**

E6601	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E6609	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E661	Drug-induced obesity	Diagnosis	ICD-10-CM
E662	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
E668	Other obesity	Diagnosis	ICD-10-CM
E669	Obesity, unspecified	Diagnosis	ICD-10-CM
K9501	Infection due to gastric band procedure	Diagnosis	ICD-10-CM
K9509	Other complications of gastric band procedure	Diagnosis	ICD-10-CM
K9581	Infection due to other bariatric procedure	Diagnosis	ICD-10-CM
K9589	Other complications of other bariatric procedure	Diagnosis	ICD-10-CM
O99210	Obesity complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99211	Obesity complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99212	Obesity complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99213	Obesity complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99215	Obesity complicating the puerperium	Diagnosis	ICD-10-CM
O99840	Bariatric surgery status complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99841	Bariatric surgery status complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99842	Bariatric surgery status complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99843	Bariatric surgery status complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O99845	Bariatric surgery status complicating the puerperium	Diagnosis	ICD-10-CM
Z6830	Body mass index (BMI) 30.0-30.9, adult	Diagnosis	ICD-10-CM
Z6831	Body mass index (BMI) 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z6832	Body mass index (BMI) 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z6833	Body mass index (BMI) 33.0-33.9, adult	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
Z6834	Body mass index (BMI) 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z6835	Body mass index (BMI) 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z6836	Body mass index (BMI) 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z6837	Body mass index (BMI) 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z6838	Body mass index (BMI) 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z6839	Body mass index (BMI) 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z6841	Body mass index (BMI) 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z6842	Body mass index (BMI) 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z6843	Body mass index (BMI) 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z6844	Body mass index (BMI) 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z6845	Body mass index (BMI) 70 or greater, adult	Diagnosis	ICD-10-CM
0D16079	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160J9	Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D160ZB	Bypass Stomach to Ileum, Open Approach	Procedure	ICD-10-PCS
0D160ZL	Bypass Stomach to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D16879	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168J9	Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JB	Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168Z9	Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZB	Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZL	Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D19079	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JB	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190Z9	Bypass Duodenum to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D190ZA	Bypass Duodenum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D190ZB	Bypass Duodenum to Ileum, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
0D19479	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194Z9	Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZA	Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZB	Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D19879	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198Z9	Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZA	Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZB	Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A07A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0ZA	Bypass Jejunum to Jejunum, Open Approach	Procedure	ICD-10-PCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZA	Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZB	Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B07B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZB	Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZH	Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DB60Z3	Excision of Stomach, Open Approach, Vertical	Procedure	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	Procedure	ICD-10-PCS

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Code	Description	Code	
		Category	Code Type
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	Procedure	ICD-10-PCS
0DB63ZZ	Excision of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	Procedure	ICD-10-PCS
0DB67ZZ	Excision of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB68Z3	Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical	Procedure	ICD-10-PCS
0DB80ZZ	Excision of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DBB0ZZ	Excision of Ileum, Open Approach	Procedure	ICD-10-PCS
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	Procedure	CPT-4
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	Procedure	CPT-4
43770	Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg, gastric band and subcutaneous port components)	Procedure	CPT-4
43842	Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty	Procedure	CPT-4
43843	Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty	Procedure	CPT-4
43847	Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption	Procedure	CPT-4
43846	Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy	Procedure	CPT-4
43845	Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption (hilio pancreatic diversion with duodenal switch)	Procedure	CPT-4
Z9884	Bariatric surgery status	Diagnosis	ICD-10-CM

**Hypertension**

H35031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I110	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I119	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I129	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I130	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
I131	Hypertensive heart and chronic kidney disease without heart failure	Diagnosis	ICD-10-CM
I1310	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
I1311	Hypertensive heart and chronic kidney disease without heart failure, 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
I132	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
I150	Renovascular hypertension	Diagnosis	ICD-10-CM
I151	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I152	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I158	Other secondary hypertension	Diagnosis	ICD-10-CM
I159	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I160	Hypertensive urgency	Diagnosis	ICD-10-CM
I161	Hypertensive emergency	Diagnosis	ICD-10-CM
I169	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM
I674	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N262	Page kidney	Diagnosis	ICD-10-CM

**Immunological diseases: Human immunodeficiency virus**

B20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
B9735	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
O987	Human immunodeficiency virus [HIV] disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O9871	Human immunodeficiency virus [HIV] disease complicating pregnancy	Diagnosis	ICD-10-CM
O98711	Human immunodeficiency virus [HIV] disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O98712	Human immunodeficiency virus [HIV] disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O98713	Human immunodeficiency virus [HIV] disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O98719	Human immunodeficiency virus [HIV] disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O9872	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O9873	Human immunodeficiency virus [HIV] disease complicating the puerperium	Diagnosis	ICD-10-CM
D893	Immune reconstitution syndrome	Diagnosis	ICD-10-CM

**Immunological diseases: Immunosuppression**

D808	Other immunodeficiencies with predominantly antibody defects	Diagnosis	ICD-10-CM
D809	Immunodeficiency with predominantly antibody defects, unspecified	Diagnosis	ICD-10-CM
D810	Severe combined immunodeficiency [SCID] with reticular dysgenesis	Diagnosis	ICD-10-CM
D811	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers	Diagnosis	ICD-10-CM
D812	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers	Diagnosis	ICD-10-CM
D814	Nezelof's syndrome	Diagnosis	ICD-10-CM
D816	Major histocompatibility complex class I deficiency	Diagnosis	ICD-10-CM
D817	Major histocompatibility complex class II deficiency	Diagnosis	ICD-10-CM
D8189	Other combined immunodeficiencies	Diagnosis	ICD-10-CM
D819	Combined immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D820	Wiskott-Aldrich syndrome	Diagnosis	ICD-10-CM
D821	Di George's syndrome	Diagnosis	ICD-10-CM
D830	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function	Diagnosis	ICD-10-CM
D831	Common variable immunodeficiency with predominant immunoregulatory T-cell disorders	Diagnosis	ICD-10-CM
D832	Common variable immunodeficiency with autoantibodies to B- or T-cells	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
D838	Other common variable immunodeficiencies	Diagnosis	ICD-10-CM
D839	Common variable immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D848	Other specified immunodeficiencies	Diagnosis	ICD-10-CM
D849	Immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D89810	Acute graft-versus-host disease	Diagnosis	ICD-10-CM
D89811	Chronic graft-versus-host disease	Diagnosis	ICD-10-CM
D89812	Acute on chronic graft-versus-host disease	Diagnosis	ICD-10-CM
D89813	Graft-versus-host disease, unspecified	Diagnosis	ICD-10-CM
D5702	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D57212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D700	Congenital agranulocytosis	Diagnosis	ICD-10-CM
D704	Cyclic neutropenia	Diagnosis	ICD-10-CM
D71	Functional disorders of polymorphonuclear neutrophils	Diagnosis	ICD-10-CM
D761	Hemophagocytic lymphohistiocytosis	Diagnosis	ICD-10-CM
D762	Hemophagocytic syndrome, infection-associated	Diagnosis	ICD-10-CM
D763	Other histiocytosis syndromes	Diagnosis	ICD-10-CM
D800	Hereditary hypogammaglobulinemia	Diagnosis	ICD-10-CM
D801	Nonfamilial hypogammaglobulinemia	Diagnosis	ICD-10-CM
D802	Selective deficiency of immunoglobulin A [IgA]	Diagnosis	ICD-10-CM
D803	Selective deficiency of immunoglobulin G [IgG] subclasses	Diagnosis	ICD-10-CM
D804	Selective deficiency of immunoglobulin M [IgM]	Diagnosis	ICD-10-CM
D805	Immunodeficiency with increased immunoglobulin M [IgM]	Diagnosis	ICD-10-CM
D806	Antibody deficiency with near-normal immunoglobulins or with hypogammaglobulinemia	Diagnosis	ICD-10-CM
D808	Other immunodeficiencies with predominantly antibody defects	Diagnosis	ICD-10-CM
D809	Immunodeficiency with predominantly antibody defects, unspecified	Diagnosis	ICD-10-CM
D810	Severe combined immunodeficiency [SCID] with reticular dysgenesis	Diagnosis	ICD-10-CM
D811	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers	Diagnosis	ICD-10-CM
D812	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers	Diagnosis	ICD-10-CM
D813	Adenosine deaminase [ADA] deficiency	Diagnosis	ICD-10-CM
D8130	Adenosine deaminase deficiency, unspecified	Diagnosis	ICD-10-CM
D8131	Adenosine deaminase deficiency with severe combined immunodeficiency	Diagnosis	ICD-10-CM
D8132	Adenosine deaminase 2 deficiency	Diagnosis	ICD-10-CM
D8139	Other adenosine deaminase deficiency	Diagnosis	ICD-10-CM
D814	Nezelof's syndrome	Diagnosis	ICD-10-CM
D815	Purine nucleoside phosphorylase [PNP] deficiency	Diagnosis	ICD-10-CM
D816	Major histocompatibility complex class I deficiency	Diagnosis	ICD-10-CM
D817	Major histocompatibility complex class II deficiency	Diagnosis	ICD-10-CM
D8189	Other combined immunodeficiencies	Diagnosis	ICD-10-CM
D819	Combined immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D820	Wiskott-Aldrich syndrome	Diagnosis	ICD-10-CM
D821	Di George's syndrome	Diagnosis	ICD-10-CM
D822	Immunodeficiency with short-limbed stature	Diagnosis	ICD-10-CM
D823	Immunodeficiency following hereditary defective response to Epstein-Barr virus	Diagnosis	ICD-10-CM
D824	Hyperimmunoglobulin E [IgE] syndrome	Diagnosis	ICD-10-CM
D828	Immunodeficiency associated with other specified major defects	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
D829	Immunodeficiency associated with major defect, unspecified	Diagnosis	ICD-10-CM
D830	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function	Diagnosis	ICD-10-CM
D831	Common variable immunodeficiency with predominant immunoregulatory T-cell disorders	Diagnosis	ICD-10-CM
D832	Common variable immunodeficiency with autoantibodies to B- or T-cells	Diagnosis	ICD-10-CM
D838	Other common variable immunodeficiencies	Diagnosis	ICD-10-CM
D839	Common variable immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D840	Lymphocyte function antigen-1 [LFA-1] defect	Diagnosis	ICD-10-CM
D841	Defects in the complement system	Diagnosis	ICD-10-CM
D848	Other specified immunodeficiencies	Diagnosis	ICD-10-CM
D849	Immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D8982	Autoimmune lymphoproliferative syndrome [ALPS]	Diagnosis	ICD-10-CM
E40	Kwashiorkor	Diagnosis	ICD-10-CM
E41	Nutritional marasmus	Diagnosis	ICD-10-CM
E42	Marasmic kwashiorkor	Diagnosis	ICD-10-CM
E43	Unspecified severe protein-calorie malnutrition	Diagnosis	ICD-10-CM
E803	Defects of catalase and peroxidase	Diagnosis	ICD-10-CM
Q8901	Asplenia (congenital)	Diagnosis	ICD-10-CM
Q8909	Congenital malformations of spleen	Diagnosis	ICD-10-CM

**Mental disorders**

F338	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F4321	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F341	Dysthymic disorder	Diagnosis	ICD-10-CM
F4323	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
F332	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F3342	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F3341	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F3340	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F330	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F331	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F333	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F339	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F325	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F324	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F320	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F321	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F323	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F322	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F329	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F3131	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F3130	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F3132	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM
F315	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F314	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F3161	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F3162	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F3164	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM



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Code	Description	Code	
		Category	Code Type
F3163	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F3160	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F3176	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F3178	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F3175	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F3177	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F3181	Bipolar II disorder	Diagnosis	ICD-10-CM
<b>Renal disorders: chronic kidney disease</b>			
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I131	Hypertensive heart and chronic kidney disease without heart failure	Diagnosis	ICD-10-CM
N030	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N031	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N032	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N033	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N034	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N035	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N036	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N037	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N038	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N039	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N050	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N051	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N052	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N053	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N054	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N055	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N056	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N057	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N058	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N059	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N181	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N182	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N183	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N184	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N185	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N186	End stage renal disease	Diagnosis	ICD-10-CM
N189	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N250	Renal osteodystrophy	Diagnosis	ICD-10-CM
Z490	Preparatory care for renal dialysis	Diagnosis	ICD-10-CM
Z4901	Encounter for fitting and adjustment of extracorporeal dialysis catheter	Diagnosis	ICD-10-CM
Z4902	Encounter for fitting and adjustment of peritoneal dialysis catheter	Diagnosis	ICD-10-CM
Z493	Encounter for adequacy testing for dialysis	Diagnosis	ICD-10-CM
Z4931	Encounter for adequacy testing for hemodialysis	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
Z4932	Encounter for adequacy testing for peritoneal dialysis	Diagnosis	ICD-10-CM
Z992	Dependence on renal dialysis	Diagnosis	ICD-10-CM
E0822	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E0829	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E0921	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E0922	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1021	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1121	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1122	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1129	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E1321	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1322	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
I129	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I130	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
I1310	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
I1311	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I132	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
K767	Hepatorenal syndrome	Diagnosis	ICD-10-CM
M3214	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3215	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3504	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
N010	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N011	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N012	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N013	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N014	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N015	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N016	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N017	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N018	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N019	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N020	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N021	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N022	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N023	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N024	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
N025	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N026	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N027	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N028	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N029	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N040	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N041	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N042	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N043	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N044	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N045	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N046	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N047	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N048	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N049	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N060	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N061	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N062	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N063	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N064	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N065	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N066	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N067	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N068	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N069	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N070	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N071	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N072	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N073	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N074	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N075	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N076	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N077	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N078	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N079	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N140	Analgesic nephropathy	Diagnosis	ICD-10-CM
N141	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N142	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N143	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N144	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
N150	Balkan nephropathy	Diagnosis	ICD-10-CM
N158	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N159	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N251	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N2581	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N2589	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N259	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N261	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N269	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
Q6102	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q6111	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q6119	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q612	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q613	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q614	Renal dysplasia	Diagnosis	ICD-10-CM
Q615	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q618	Other cystic kidney diseases	Diagnosis	ICD-10-CM
Q620	Congenital hydronephrosis	Diagnosis	ICD-10-CM
Q6210	Congenital occlusion of ureter, unspecified	Diagnosis	ICD-10-CM
Q6211	Congenital occlusion of ureteropelvic junction	Diagnosis	ICD-10-CM
Q6212	Congenital occlusion of ureterovesical orifice	Diagnosis	ICD-10-CM
Q622	Congenital megaureter	Diagnosis	ICD-10-CM
Q6231	Congenital ureterocele, orthotopic	Diagnosis	ICD-10-CM
Q6232	Cecoureterocele	Diagnosis	ICD-10-CM
Q6239	Other obstructive defects of renal pelvis and ureter	Diagnosis	ICD-10-CM
R944	Abnormal results of kidney function studies	Diagnosis	ICD-10-CM
N110	Nonobstructive reflux-associated chronic pyelonephritis	Diagnosis	ICD-10-CM
N111	Chronic obstructive pyelonephritis	Diagnosis	ICD-10-CM
N118	Other chronic tubulo-interstitial nephritis	Diagnosis	ICD-10-CM
N119	Chronic tubulo-interstitial nephritis, unspecified	Diagnosis	ICD-10-CM
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	Diagnosis	ICD-10-CM
N130	Hydronephrosis with ureteropelvic junction obstruction	Diagnosis	ICD-10-CM
N134	Hydroureter	Diagnosis	ICD-10-CM
N135	Crossing vessel and stricture of ureter without hydronephrosis	Diagnosis	ICD-10-CM
N136	Pyonephrosis	Diagnosis	ICD-10-CM
N1370	Vesicoureteral-reflux, unspecified	Diagnosis	ICD-10-CM
N1371	Vesicoureteral-reflux without reflux nephropathy	Diagnosis	ICD-10-CM
N13721	Vesicoureteral-reflux with reflux nephropathy without hydroureter, unilateral	Diagnosis	ICD-10-CM
N13722	Vesicoureteral-reflux with reflux nephropathy without hydroureter, bilateral	Diagnosis	ICD-10-CM
N13729	Vesicoureteral-reflux with reflux nephropathy without hydroureter, unspecified	Diagnosis	ICD-10-CM
N13731	Vesicoureteral-reflux with reflux nephropathy with hydroureter, unilateral	Diagnosis	ICD-10-CM
N13732	Vesicoureteral-reflux with reflux nephropathy with hydroureter, bilateral	Diagnosis	ICD-10-CM
N13739	Vesicoureteral-reflux with reflux nephropathy with hydroureter, unspecified	Diagnosis	ICD-10-CM
N138	Other obstructive and reflux uropathy	Diagnosis	ICD-10-CM
N139	Obstructive and reflux uropathy, unspecified	Diagnosis	ICD-10-CM
N2889	Other specified disorders of kidney and ureter	Diagnosis	ICD-10-CM
N289	Disorder of kidney and ureter, unspecified	Diagnosis	ICD-10-CM
N29	Other disorders of kidney and ureter in diseases classified elsewhere	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
90999	Unlisted dialysis procedure, inpatient or outpatient	Procedure	CPT-4
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	Procedure	CPT-4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	Procedure	CPT-4
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4
90958	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	Procedure	CPT-4

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	Procedure	CPT-4
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development and counseling of parents	Procedure	CPT-4
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	Procedure	CPT-4
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development and counseling of parents	Procedure	CPT-4
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development and counseling of parents	Procedure	CPT-4
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age	Procedure	CPT-4
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older	Procedure	CPT-4
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age	Procedure	CPT-4
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age	Procedure	CPT-4
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis prescription	Procedure	CPT-4
A4714	Treated water (deionized, distilled, or reverse osmosis) for peritoneal dialysis, per gallon	Procedure	HCPCS
90994	Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)	Procedure	CPT-4
E1640	Replacement components for hemodialysis and/or peritoneal dialysis machines that are owned or being purchased by the patient	Procedure	HCPCS
E1630	Reciprocating peritoneal dialysis system	Procedure	HCPCS
90992	Peritoneal Dialysis Training And/or Counseling	Procedure	CPT-4
0507F	Peritoneal dialysis plan of care documented (ESRD)	Procedure	CPT
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	Procedure	CPT-4
E1634	Peritoneal dialysis clamps, each	Procedure	HCPCS

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Code	Description	Code	
		Category	Code Type
K0610	Peritoneal dialysis clamp, each	Procedure	HCPCS
A4653	Peritoneal dialysis catheter anchoring device, belt, each	Procedure	HCPCS
4055F	Patient receiving peritoneal dialysis (ESRD)	Procedure	CPT Category II
G8727	Patient receiving hemodialysis, peritoneal dialysis or kidney transplantation	Procedure	HCPCS
G9523	Patient discontinued from hemodialysis or peritoneal dialysis	Procedure	HCPCS
A4905	Intermittent peritoneal dialysis (ipd) supply kit	Procedure	HCPCS
S9339	Home therapy; peritoneal dialysis, administrative services, professional pharmacy services, care coordination and all necessary supplies and equipment (drugs and nursing visits coded separately) per diem	Procedure	HCPCS
99559	Home infusion of peritoneal dialysis, per visit	Procedure	CPT-4
E1638	Heating pad, for peritoneal dialysis, any size, each	Procedure	HCPCS
A4860	Disposable catheter tips for peritoneal dialysis, per 10	Procedure	HCPCS
A4721	Dialysate solution, any concentration of dextrose, fluid volume greater than 999 cc but less than or equal to 1999 cc, for peritoneal dialysis	Procedure	HCPCS
A4726	Dialysate solution, any concentration of dextrose, fluid volume greater than 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4725	Dialysate solution, any concentration of dextrose, fluid volume greater than 4999 cc but less than or equal to 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4724	Dialysate solution, any concentration of dextrose, fluid volume greater than 3999 cc but less than or equal to 4999 cc, for peritoneal dialysis	Procedure	HCPCS
A4723	Dialysate solution, any concentration of dextrose, fluid volume greater than 2999 cc but less than or equal to 3999 cc, for peritoneal dialysis	Procedure	HCPCS
A4720	Dialysate solution, any concentration of dextrose, fluid volume greater than 249 cc, but less than or equal to 999 cc, for peritoneal dialysis	Procedure	HCPCS
A4722	Dialysate solution, any concentration of dextrose, fluid volume greater than 1999 cc but less than or equal to 2999 cc, for peritoneal dialysis	Procedure	HCPCS
A4760	Dialysate solution test kit, for peritoneal dialysis, any type, each	Procedure	HCPCS
A4766	Dialysate concentrate, solution, additive for peritoneal dialysis, per 10 ml	Procedure	HCPCS
A4765	Dialysate concentrate, powder, additive for peritoneal dialysis, per packet	Procedure	HCPCS
E1594	Cycler dialysis machine for peritoneal dialysis	Procedure	HCPCS
A4901	Continuous cycling peritoneal dialysis (ccpd) supply kit	Procedure	HCPCS
A4900	Continuous ambulatory peritoneal dialysis (capd) supply kit	Procedure	HCPCS
E1592	Automatic intermittent peritoneal dialysis system	Procedure	HCPCS
A4719	"Y set" tubing for peritoneal dialysis	Procedure	HCPCS
E1625	Water softening system, for hemodialysis	Procedure	HCPCS
G0365	Vessel mapping of vessels for hemodialysis access (services for preoperative vessel mapping prior to creation of hemodialysis access using an autogenous hemodialysis conduit, including arterial inflow and venous outflow)	Procedure	HCPCS
A4918	Venous pressure clamp, for hemodialysis, each	Procedure	HCPCS
93998	Unlisted noninvasive vascular diagnostic study	Procedure	CPT-4
E1580	Unipuncture control system for hemodialysis	Procedure	HCPCS
G0393	Transluminal balloon angioplasty, percutaneous; for maintenance of hemodialysis access, arteriovenous fistula or graft; venous	Procedure	HCPCS
G0392	Transluminal balloon angioplasty, percutaneous; for maintenance of hemodialysis access, arteriovenous fistula or graft; arterial	Procedure	HCPCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
36907	Transluminal balloon angioplasty, central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the angioplasty (List separately in addition to code for primary procedure)	Procedure	CPT-4
E1575	Transducer protectors/fluid barriers, for hemodialysis, any size, per 10	Procedure	HCPCS
36908	Transcatheter placement of intravascular stent(s), central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the stenting, and all angioplasty in the central dialysis segment (List separately in addition to code for primary procedure)	Procedure	CPT-4
35876	Thrombectomy of arterial or venous graft (other than hemodialysis graft or fistula); with revision of arterial or venous graft	Procedure	CPT-4
35875	Thrombectomy of arterial or venous graft (other than hemodialysis graft or fistula);	Procedure	CPT-4
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis	Procedure	CPT-4
E1636	Sorbent cartridges, for hemodialysis, per 10	Procedure	HCPCS
A4740	Shunt accessory, for hemodialysis, any type, each	Procedure	HCPCS
E1610	Reverse osmosis water purification system, for hemodialysis	Procedure	HCPCS
A4802	Protamine sulfate, for hemodialysis, per 50 mg	Procedure	HCPCS
E1540	Pressure alarm for hemodialysis, each, replacement	Procedure	HCPCS
A4870	Plumbing and/or electrical work for home hemodialysis equipment	Procedure	HCPCS
36489	Placement of central venous catheter (subclavian, jugular, or other vein) (eg, for central venous pressure, hyperalimentation, hemodialysis, or chemotherapy); percutaneous, over age 2	Procedure	CPT-4
36488	Placement of central venous catheter (subclavian, jugular, or other vein) (eg, for central venous pressure, hyperalimentation, hemodialysis, or chemotherapy); percutaneous, age 2 years or under	Procedure	CPT-4
36491	Placement of central venous catheter (subclavian, jugular, or other vein) (eg, for central venous pressure, hyperalimentation, hemodialysis, or chemotherapy); cutdown, over age 2	Procedure	CPT-4
36490	Placement of central venous catheter (subclavian, jugular, or other vein) (eg, for central venous pressure, hyperalimentation, hemodialysis, or chemotherapy); cutdown, age 2 years or under	Procedure	CPT-4
36905	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty	Procedure	CPT-4
36906	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s); with transcatheter placement of intravascular stent(s), peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the stenting, and all angioplasty within the peripheral dialysis circuit	Procedure	CPT-4



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
36904	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s), and intraprocedural pharmacological thrombolytic injection(s);	Procedure	CPT-4
G9241	Patient whose mode of vascular access is not a catheter at the time maintenance hemodialysis is initiated	Procedure	HCPCS
G9240	Patient whose mode of vascular access is a catheter at the time maintenance hemodialysis is initiated	Procedure	HCPCS
G8956	Patient receiving maintenance hemodialysis in an outpatient dialysis facility	Procedure	HCPCS
G9266	Patient receiving maintenance hemodialysis for greater than or equal to 90 days without a catheter as the mode of vascular access	Procedure	HCPCS
G9265	Patient receiving maintenance hemodialysis for greater than or equal to 90 days with a catheter as the mode of vascular access	Procedure	HCPCS
G8957	Patient not receiving maintenance hemodialysis in an outpatient dialysis facility	Procedure	HCPCS
37607	Ligation or banding of angioaccess arteriovenous fistula	Procedure	CPT-4
36902	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava, fluoroscopic guidance, radiological supervision and interpretation and image documentation and report; with transluminal balloon angioplasty, peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary	Procedure	CPT-4
36903	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava, fluoroscopic guidance, radiological supervision and interpretation and image documentation and report; with transcatheter placement of intravascular stent(s), peripheral dialysis segment, including all imaging and radiological supervision and interpretation necessary to perform the stenting, and all angioplasty within the peripheral	Procedure	CPT-4
36901	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava, fluoroscopic guidance, radiological supervision and interpretation and image documentation and report	Procedure	CPT-4
36800	Insertion of cannula for hemodialysis, other purpose (separate procedure); vein to vein	Procedure	CPT-4
36815	Insertion of cannula for hemodialysis, other purpose (separate procedure); arteriovenous, external revision, or closure	Procedure	CPT-4
36810	Insertion of cannula for hemodialysis, other purpose (separate procedure); arteriovenous, external (Scribner type)	Procedure	CPT-4
99512	Home visit for hemodialysis	Procedure	CPT-4
S9335	Home therapy, hemodialysis; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing services coded separately). per diem	Procedure	HCPCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily Responsible	Procedure	CPT-4
A4801	Heparin, any type, for hemodialysis, per 1000 units	Procedure	HCPCS
E1520	Heparin infusion pump for hemodialysis	Procedure	HCPCS
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	Procedure	CPT-4
4053F	Hemodialysis via functioning arteriovenous (AV) graft (ESRD)	Procedure	CPT
4052F	Hemodialysis via functioning arteriovenous (AV) fistula (ESRD)	Procedure	Category II CPT
4054F	Hemodialysis via catheter (ESRD)	Procedure	Category II CPT
G8715	Hemodialysis treatment performed less than 3 times per week or greater than 3 times per week	Procedure	Category II HCPCS
G8714	Hemodialysis treatment performed exactly 3 times per week > 90 days	Procedure	HCPCS
90990	Hemodialysis Training And/or Counseling	Procedure	CPT-4
0505F	Hemodialysis plan of care documented (ESRD, P-ESRD)	Procedure	CPT
E1590	Hemodialysis machine	Procedure	Category II HCPCS
A4820	Hemodialysis kit supplies	Procedure	HCPCS
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection	Procedure	CPT-4
A4730	Fistula cannulation set for hemodialysis, each	Procedure	HCPCS
G8085	ESRD patient requiring hemodialysis vascular access was not an eligible candidate for autogenous AV fistula	Procedure	HCPCS
G8081	ESRD patient requiring hemodialysis vascular access documented to have received autogenous AV fistula	Procedure	HCPCS
G8082	ESRD patient requiring hemodialysis documented to have received vascular access other than autogenous AV fistula	Procedure	HCPCS
93990	Duplex scan of hemodialysis access (including arterial inflow, body of access and venous outflow)	Procedure	CPT-4
93986	Duplex scan of arterial inflow and venous outflow for preoperative vessel assessment prior to creation of hemodialysis access: complete unilateral study	Procedure	CPT-4
93985	Duplex scan of arterial inflow and venous outflow for preoperative vessel assessment prior to creation of hemodialysis access; complete bilateral study	Procedure	CPT-4
G9239	Documentation of reasons for patient initiating maintenance hemodialysis with a catheter as the mode of vascular access (e.g., patient has a maturing arteriovenous fistula (AVF)/arteriovenous graft (AVG), time limited trial of hemodialysis, other medical reasons, patient declined AVF/AVG, other patient reasons, patient followed by reporting nephrologist for fewer than 90 days, other system reasons)	Procedure	HCPCS
G9264	Documentation of patient receiving maintenance hemodialysis for greater than or equal to 90 days with a catheter for documented reasons (e.g., other medical reasons, patient declined arteriovenous fistula (AVF)/arteriovenous graft (AVG), other patient reasons)	Procedure	HCPCS
36838	Distal revascularization and interval ligation (DRIL), upper extremity hemodialysis access (steal syndrome)	Procedure	CPT-4

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Code	Description	Code	
		Category	Code Type
A4690	Dialyzer (artificial kidneys), all types, all sizes, for hemodialysis, each	Procedure	HCPCS
36909	Dialysis circuit permanent vascular embolization or occlusion (including main circuit or any accessory veins), endovascular, including all imaging and radiological supervision and interpretation necessary to complete the intervention (List separately in addition to code for primary procedure)	Procedure	CPT-4
E1600	Delivery and/or installation charges for hemodialysis equipment	Procedure	HCPCS
E1615	Deionizer water purification system, for hemodialysis	Procedure	HCPCS
35686	Creation of distal arteriovenous fistula during lower extremity bypass surgery (non-hemodialysis) (List separately in addition to code for primary procedure)	Procedure	CPT-4
A4890	Contracts, repair and maintenance, for hemodialysis equipment	Procedure	HCPCS
C1751	Catheter, infusion, inserted peripherally, centrally or midline (other than hemodialysis)	Procedure	HCPCS
C1752	Catheter, hemodialysis/peritoneal, short-term	Procedure	HCPCS
C1750	Catheter, hemodialysis/peritoneal, long-term	Procedure	HCPCS
A4750	Blood tubing, arterial or venous, for hemodialysis, each	Procedure	HCPCS
A4755	Blood tubing, arterial and venous combined, for hemodialysis, each	Procedure	HCPCS
E1620	Blood pump for hemodialysis, replacement	Procedure	HCPCS
E1560	Blood leak detector for hemodialysis, each, replacement	Procedure	HCPCS
A4706	Bicarbonate concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS
A4707	Bicarbonate concentrate, powder, for hemodialysis, per packet	Procedure	HCPCS
E1550	Bath conductivity meter for hemodialysis, each	Procedure	HCPCS
36821	Arteriovenous anastomosis, open; direct, any site (eg, Cimino type) (separate procedure)	Procedure	CPT-4
36818	Arteriovenous anastomosis, open; by upper arm cephalic vein transposition	Procedure	CPT-4
36819	Arteriovenous anastomosis, open; by upper arm basilic vein transposition	Procedure	CPT-4
36820	Arteriovenous anastomosis, open; by forearm vein transposition	Procedure	CPT-4
E1530	Air bubble detector for hemodialysis, each, replacement	Procedure	HCPCS
A4680	Activated carbon filter for hemodialysis, each	Procedure	HCPCS
A4709	Acid concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS
A4708	Acetate concentrate solution, for hemodialysis, per gallon	Procedure	HCPCS
49422	Removal of tunneled intraperitoneal catheter	Procedure	CPT-4
49325	Laparoscopy, surgical; with revision of previously placed intraperitoneal cannula or catheter, with removal of intraluminal obstructive material if performed	Procedure	CPT-4
49324	Laparoscopy, surgical; with insertion of tunneled intraperitoneal catheter	Procedure	CPT-4
49419	Insertion of tunneled intraperitoneal catheter, with subcutaneous port (ie, totally implantable)	Procedure	CPT-4
49421	Insertion of tunneled intraperitoneal catheter for dialysis, open	Procedure	CPT-4
49418	Insertion of tunneled intraperitoneal catheter (eg, dialysis, intraperitoneal chemotherapy instillation, management of ascites), complete procedure, including imaging guidance, catheter placement, contrast injection when performed, and radiological supervision and interpretation, percutaneous	Procedure	CPT-4
49435	Insertion of subcutaneous extension to intraperitoneal cannula or catheter with remote chest exit site (List separately in addition to code for primary procedure)	Procedure	CPT-4
B50W	Plain Radiography / Dialysis Shunt/Fistula	Diagnosis	ICD-10-CM
B50W0ZZ	Plain Radiography of Dialysis Shunt/Fistula using High Osmolar Contrast	Diagnosis	ICD-10-CM
B50W1ZZ	Plain Radiography of Dialysis Shunt/Fistula using Low Osmolar Contrast	Diagnosis	ICD-10-CM
B50WYZZ	Plain Radiography of Dialysis Shunt/Fistula using Other Contrast	Diagnosis	ICD-10-CM
B51W	Fluoroscopy / Dialysis Shunt/Fistula	Diagnosis	ICD-10-CM
B51W0ZA	Fluoroscopy of Dialysis Shunt/Fistula using High Osmolar Contrast, Guidance	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
B51W0ZZ	Fluoroscopy of Dialysis Shunt/Fistula using High Osmolar Contrast	Diagnosis	ICD-10-CM
B51W1ZA	Fluoroscopy of Dialysis Shunt/Fistula using Low Osmolar Contrast, Guidance	Diagnosis	ICD-10-CM
B51W1ZZ	Fluoroscopy of Dialysis Shunt/Fistula using Low Osmolar Contrast	Diagnosis	ICD-10-CM
B51WYZA	Fluoroscopy of Dialysis Shunt/Fistula using Other Contrast, Guidance	Diagnosis	ICD-10-CM
B51WYZZ	Fluoroscopy of Dialysis Shunt/Fistula using Other Contrast	Diagnosis	ICD-10-CM
B51WZZA	Fluoroscopy of Dialysis Shunt/Fistula, Guidance	Diagnosis	ICD-10-CM
B51WZZZ	Fluoroscopy of Dialysis Shunt/Fistula	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1021	Pre-existing hypertensive chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O102	Pre-existing hypertensive chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1023	Pre-existing hypertensive chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1031	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O103	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1033	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
N1830	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N1831	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N1832	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
E0821	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E0929	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E1029	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E1329	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
Z9115	Patient's noncompliance with renal dialysis	Diagnosis	ICD-10-CM
<b>Respiratory diseases: Asthma</b>			
J4520	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4521	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4522	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4530	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4531	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
J4532	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4540	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4541	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4542	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4550	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4551	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4552	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45991	Cough variant asthma	Diagnosis	ICD-10-CM
J45998	Other asthma	Diagnosis	ICD-10-CM
J45	Asthma	Diagnosis	ICD-10-CM
J452	Mild intermittent asthma	Diagnosis	ICD-10-CM
J453	Mild persistent asthma	Diagnosis	ICD-10-CM
J454	Moderate persistent asthma	Diagnosis	ICD-10-CM
J455	Severe persistent asthma	Diagnosis	ICD-10-CM
J459	Other and unspecified asthma	Diagnosis	ICD-10-CM
J4590	Unspecified asthma	Diagnosis	ICD-10-CM
J4599	Other asthma	Diagnosis	ICD-10-CM

**Respiratory diseases: Chronic obstructive pulmonary disease**

J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J410	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J411	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J418	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J430	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J431	Panlobular emphysema	Diagnosis	ICD-10-CM
J432	Centrilobular emphysema	Diagnosis	ICD-10-CM
J438	Other emphysema	Diagnosis	ICD-10-CM
J439	Emphysema, unspecified	Diagnosis	ICD-10-CM
J440	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J441	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J449	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J43	Emphysema	Diagnosis	ICD-10-CM
J982	Interstitial emphysema	Diagnosis	ICD-10-CM
J983	Compensatory emphysema	Diagnosis	ICD-10-CM
P25	Interstitial emphysema and related conditions originating in the perinatal period	Diagnosis	ICD-10-CM
P250	Interstitial emphysema originating in the perinatal period	Diagnosis	ICD-10-CM
P258	Other conditions related to interstitial emphysema originating in the perinatal period	Diagnosis	ICD-10-CM

**Respiratory diseases: Other chronic respiratory disease**

J470	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J471	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J479	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
B4481	Allergic bronchopulmonary aspergillosis	Diagnosis	ICD-10-CM
G4734	Idio sleep related nonobstructive alveolar hypoventilation	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
G4736	Sleep related hypoventilation in conditions classd elswhr	Diagnosis	ICD-10-CM
G4739	Other sleep apnea	Diagnosis	ICD-10-CM
E840	Cystic fibrosis with pulmonary manifestations	Diagnosis	ICD-10-CM
E841	Cystic fibrosis with intestinal manifestations	Diagnosis	ICD-10-CM
E8419	Cystic fibrosis with other intestinal manifestations	Diagnosis	ICD-10-CM
E848	Cystic fibrosis with other manifestations	Diagnosis	ICD-10-CM
J61	Pneumoconiosis due to asbestos and other mineral fibers	Diagnosis	ICD-10-CM
J62	Pneumoconiosis due to dust containing silica	Diagnosis	ICD-10-CM
J628	Pneumoconiosis due to other dust containing silica	Diagnosis	ICD-10-CM
J63	Pneumoconiosis due to other inorganic dusts	Diagnosis	ICD-10-CM
J636	Pneumoconiosis due to other specified inorganic dusts	Diagnosis	ICD-10-CM
J65	Pneumoconiosis associated with tuberculosis	Diagnosis	ICD-10-CM
J70	Respiratory conditions due to other external agents	Diagnosis	ICD-10-CM
J701	Chronic and other pulmonary manifestations due to radiatio	Diagnosis	ICD-10-CM
J703	Chronic drug-induced interstitial lung disorders	Diagnosis	ICD-10-CM
J704	Drug-induced interstitial lung disorders, unspecified	Diagnosis	ICD-10-CM
J705	Respiratory conditions due to smoke inhalation	Diagnosis	ICD-10-CM
J708	Respiratory conditions due to oth external agents	Diagnosis	ICD-10-CM
J709	Respiratory conditions due to unspecified external agent	Diagnosis	ICD-10-CM
J82	Pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J828	Pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J8289	Other pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J84	Other interstitial pulmonary diseases	Diagnosis	ICD-10-CM
J840	Alveolar and parieto-alveolar conditions	Diagnosis	ICD-10-CM
J8409	Other alveolar and parieto-alveolar conditions	Diagnosis	ICD-10-CM
J841	Other interstitial pulmonary diseases with fibrosis	Diagnosis	ICD-10-CM
J8410	Pulmonary fibrosis, unspecified	Diagnosis	ICD-10-CM
J84111	Idiopathic interstitial pneumonia, not otherwise specified	Diagnosis	ICD-10-CM
J84113	Idiopathic non-specific interstitial pneumonitis	Diagnosis	ICD-10-CM
J84115	Respiratory bronchiolitis interstitial lung disease	Diagnosis	ICD-10-CM
J84117	Desquamative interstitial pneumonia	Diagnosis	ICD-10-CM
J8417	Oth interstit pulmon dis w fibrosis in dis classd elswhr	Diagnosis	ICD-10-CM
J84170	Interstit lung dis w progr fibrotic phenotype dis classd e	Diagnosis	ICD-10-CM
J84178	Oth interstit pulmon dis with fibrosis in dis classd elswh	Diagnosis	ICD-10-CM
J848	Other specified interstitial pulmonary diseases	Diagnosis	ICD-10-CM
J8482	Adult pulmonary Langerhans cell histiocytosis	Diagnosis	ICD-10-CM
J8484	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
J84841	Neuroendocrine cell hyperplasia of infancy	Diagnosis	ICD-10-CM
J84842	Pulmonary interstitial glycogenosis	Diagnosis	ICD-10-CM
J84843	Alveolar capillary dysplasia with vein misalignment	Diagnosis	ICD-10-CM
J84848	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
J8489	Other specified interstitial pulmonary diseases	Diagnosis	ICD-10-CM
J849	Interstitial pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J91	Pleural effusion in conditions classified elsewhere	Diagnosis	ICD-10-CM
J920	Pleural plaque with presence of asbestos	Diagnosis	ICD-10-CM
P25	Interstitial emphysema and related conditions originating in the perinatal period	Diagnosis	ICD-10-CM
P27	Chronic respiratory disease originating in the perinatal period	Diagnosis	ICD-10-CM
P270	Wilson-Mikity syndrome	Diagnosis	ICD-10-CM
P271	Bronchopulmonary dysplasia origin in the perinatal period	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
P278	Oth chronic resp diseases origin in the perinatal period	Diagnosis	ICD-10-CM
P279	Unsp chronic resp disease origin in the perinatal period	Diagnosis	ICD-10-CM
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J410	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J411	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J418	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J43	Emphysema	Diagnosis	ICD-10-CM
J430	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J431	Panlobular emphysema	Diagnosis	ICD-10-CM
J432	Centrilobular emphysema	Diagnosis	ICD-10-CM
J438	Other emphysema	Diagnosis	ICD-10-CM
J439	Emphysema, unspecified	Diagnosis	ICD-10-CM
J44	Other chronic obstructive pulmonary disease	Diagnosis	ICD-10-CM
J982	Interstitial emphysema	Diagnosis	ICD-10-CM
J983	compensatory emphysema	Diagnosis	ICD-10-CM
J984	other disorders of lung	Diagnosis	ICD-10-CM
J989	Respiratory disease (chronic) NOS	Diagnosis	ICD-10-CM
J961	Chronic respiratory failure	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM

**Rheumatic diseases**

M05	Rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M051	Rheumatoid lung disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M0510	Rheumatoid lung disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0511	Rheumatoid lung disease with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05119	Rheumatoid lung disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M0512	Rheumatoid lung disease with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05121	Rheumatoid lung disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05122	Rheumatoid lung disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05129	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M0513	Rheumatoid lung disease with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05131	Rheumatoid lung disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05132	Rheumatoid lung disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M0514	Rheumatoid lung disease with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05141	Rheumatoid lung disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05142	Rheumatoid lung disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M0515	Rheumatoid lung disease with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05151	Rheumatoid lung disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05152	Rheumatoid lung disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M0516	Rheumatoid lung disease with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05161	Rheumatoid lung disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05162	Rheumatoid lung disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M0517	Rheumatoid lung disease with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M05171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0519	Rheumatoid lung disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M052	Rheumatoid vasculitis with rheumatoid arthritis	Diagnosis	ICD-10-CM
M0520	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0521	Rheumatoid vasculitis with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M0522	Rheumatoid vasculitis with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M0523	Rheumatoid vasculitis with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M0524	Rheumatoid vasculitis with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M0525	Rheumatoid vasculitis with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M0526	Rheumatoid vasculitis with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M0527	Rheumatoid vasculitis with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0529	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M053	Rheumatoid heart disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M0530	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0531	Rheumatoid heart disease with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M0532	Rheumatoid heart disease with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M0533	Rheumatoid heart disease with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM



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Code	Description	Code	
		Category	Code Type
M0534	Rheumatoid heart disease with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M0535	Rheumatoid heart disease with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M0536	Rheumatoid heart disease with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M0537	Rheumatoid heart disease with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0539	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M054	Rheumatoid myopathy with rheumatoid arthritis	Diagnosis	ICD-10-CM
M0540	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0541	Rheumatoid myopathy with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M0542	Rheumatoid myopathy with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M0543	Rheumatoid myopathy with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M0544	Rheumatoid myopathy with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M0545	Rheumatoid myopathy with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M0546	Rheumatoid myopathy with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M0547	Rheumatoid myopathy with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0549	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M055	Rheumatoid polyneuropathy with rheumatoid arthritis	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M0550	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0551	Rheumatoid polyneuropathy with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M0552	Rheumatoid polyneuropathy with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M0553	Rheumatoid polyneuropathy with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M0554	Rheumatoid polyneuropathy with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M0555	Rheumatoid polyneuropathy with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M0556	Rheumatoid polyneuropathy with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M0557	Rheumatoid polyneuropathy with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0559	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M056	Rheumatoid arthritis with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0560	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0561	Rheumatoid arthritis of shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0562	Rheumatoid arthritis of elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0563	Rheumatoid arthritis of wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0564	Rheumatoid arthritis of hand with involvement of other organs and systems	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M05641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0565	Rheumatoid arthritis of hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0566	Rheumatoid arthritis of knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0567	Rheumatoid arthritis of ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M0569	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M057	Rheumatoid arthritis with rheumatoid factor without organ or systems involvement	Diagnosis	ICD-10-CM
M0570	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M0571	Rheumatoid arthritis with rheumatoid factor of shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M0572	Rheumatoid arthritis with rheumatoid factor of elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M0573	Rheumatoid arthritis with rheumatoid factor of wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M0574	Rheumatoid arthritis with rheumatoid factor of hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM
M0575	Rheumatoid arthritis with rheumatoid factor of hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M0576	Rheumatoid arthritis with rheumatoid factor of knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M0577	Rheumatoid arthritis with rheumatoid factor of ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M0579	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M058	Other rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M0580	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M0581	Other rheumatoid arthritis with rheumatoid factor of shoulder	Diagnosis	ICD-10-CM
M05811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M0582	Other rheumatoid arthritis with rheumatoid factor of elbow	Diagnosis	ICD-10-CM
M05821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M0583	Other rheumatoid arthritis with rheumatoid factor of wrist	Diagnosis	ICD-10-CM
M05831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M0584	Other rheumatoid arthritis with rheumatoid factor of hand	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M05841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M0585	Other rheumatoid arthritis with rheumatoid factor of hip	Diagnosis	ICD-10-CM
M05851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M0586	Other rheumatoid arthritis with rheumatoid factor of knee	Diagnosis	ICD-10-CM
M05861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M0587	Other rheumatoid arthritis with rheumatoid factor of ankle and foot	Diagnosis	ICD-10-CM
M05871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M0589	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M059	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06	Other rheumatoid arthritis	Diagnosis	ICD-10-CM
M060	Rheumatoid arthritis without rheumatoid factor	Diagnosis	ICD-10-CM
M0600	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M0601	Rheumatoid arthritis without rheumatoid factor, shoulder	Diagnosis	ICD-10-CM
M06011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M0602	Rheumatoid arthritis without rheumatoid factor, elbow	Diagnosis	ICD-10-CM
M06021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M0603	Rheumatoid arthritis without rheumatoid factor, wrist	Diagnosis	ICD-10-CM
M06031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M0604	Rheumatoid arthritis without rheumatoid factor, hand	Diagnosis	ICD-10-CM
M06041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M0605	Rheumatoid arthritis without rheumatoid factor, hip	Diagnosis	ICD-10-CM
M06051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M0606	Rheumatoid arthritis without rheumatoid factor, knee	Diagnosis	ICD-10-CM
M06061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M0607	Rheumatoid arthritis without rheumatoid factor, ankle and foot	Diagnosis	ICD-10-CM
M06071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0608	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M0609	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M068	Other specified rheumatoid arthritis	Diagnosis	ICD-10-CM
M0680	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M0681	Other specified rheumatoid arthritis, shoulder	Diagnosis	ICD-10-CM
M06811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M0682	Other specified rheumatoid arthritis, elbow	Diagnosis	ICD-10-CM
M06821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M0683	Other specified rheumatoid arthritis, wrist	Diagnosis	ICD-10-CM
M06831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M0684	Other specified rheumatoid arthritis, hand	Diagnosis	ICD-10-CM
M06841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M0685	Other specified rheumatoid arthritis, hip	Diagnosis	ICD-10-CM
M06851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M0686	Other specified rheumatoid arthritis, knee	Diagnosis	ICD-10-CM
M06861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M0687	Other specified rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M06871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0688	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M0689	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M069	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M080	Unspecified juvenile rheumatoid arthritis	Diagnosis	ICD-10-CM
M0800	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M0801	Unspecified juvenile rheumatoid arthritis, shoulder	Diagnosis	ICD-10-CM
M08011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M0802	Unspecified juvenile rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M08021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M0803	Unspecified juvenile rheumatoid arthritis, wrist	Diagnosis	ICD-10-CM
M08031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M0804	Unspecified juvenile rheumatoid arthritis, hand	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M08041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M0805	Unspecified juvenile rheumatoid arthritis, hip	Diagnosis	ICD-10-CM
M08051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M0806	Unspecified juvenile rheumatoid arthritis, knee	Diagnosis	ICD-10-CM
M08061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M0807	Unspecified juvenile rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M08071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0808	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M0809	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M082	Juvenile rheumatoid arthritis with systemic onset	Diagnosis	ICD-10-CM
M0820	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M0821	Juvenile rheumatoid arthritis with systemic onset, shoulder	Diagnosis	ICD-10-CM
M08211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M0822	Juvenile rheumatoid arthritis with systemic onset, elbow	Diagnosis	ICD-10-CM
M08221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M0823	Juvenile rheumatoid arthritis with systemic onset, wrist	Diagnosis	ICD-10-CM
M08231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M0824	Juvenile rheumatoid arthritis with systemic onset, hand	Diagnosis	ICD-10-CM
M08241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M0825	Juvenile rheumatoid arthritis with systemic onset, hip	Diagnosis	ICD-10-CM
M08251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M0826	Juvenile rheumatoid arthritis with systemic onset, knee	Diagnosis	ICD-10-CM
M08261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M0827	Juvenile rheumatoid arthritis with systemic onset, ankle and foot	Diagnosis	ICD-10-CM
M08271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0828	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M0829	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M084	Pauciarticular juvenile rheumatoid arthritis	Diagnosis	ICD-10-CM
M0840	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M0841	Pauciarticular juvenile rheumatoid arthritis, shoulder	Diagnosis	ICD-10-CM
M08411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M0842	Pauciarticular juvenile rheumatoid arthritis, elbow	Diagnosis	ICD-10-CM
M08421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M0843	Pauciarticular juvenile rheumatoid arthritis, wrist	Diagnosis	ICD-10-CM
M08431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M0844	Pauciarticular juvenile rheumatoid arthritis, hand	Diagnosis	ICD-10-CM
M08441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M0845	Pauciarticular juvenile rheumatoid arthritis, hip	Diagnosis	ICD-10-CM
M08451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M0846	Pauciarticular juvenile rheumatoid arthritis, knee	Diagnosis	ICD-10-CM
M08461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M0847	Pauciarticular juvenile rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M08471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0848	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
H0112	Discoid lupus erythematosus of eyelid	Diagnosis	ICD-10-CM
H01121	Discoid lupus erythematosus of right upper eyelid	Diagnosis	ICD-10-CM
H01122	Discoid lupus erythematosus of right lower eyelid	Diagnosis	ICD-10-CM
H01123	Discoid lupus erythematosus of right eye, unspecified eyelid	Diagnosis	ICD-10-CM
H01124	Discoid lupus erythematosus of left upper eyelid	Diagnosis	ICD-10-CM
H01125	Discoid lupus erythematosus of left lower eyelid	Diagnosis	ICD-10-CM
H01126	Discoid lupus erythematosus of left eye, unspecified eyelid	Diagnosis	ICD-10-CM
H01129	Discoid lupus erythematosus of unspecified eye, unspecified eyelid	Diagnosis	ICD-10-CM
L93	Lupus erythematosus	Diagnosis	ICD-10-CM
L930	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
L931	Subacute cutaneous lupus erythematosus	Diagnosis	ICD-10-CM
L932	Other local lupus erythematosus	Diagnosis	ICD-10-CM
M32	Systemic lupus erythematosus (SLE)	Diagnosis	ICD-10-CM
M320	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
M321	Systemic lupus erythematosus with organ or system involvement	Diagnosis	ICD-10-CM
M3210	Systemic lupus erythematosus, organ or system involvement unspecified	Diagnosis	ICD-10-CM
M3211	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3212	Pericarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M3213	Lung involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3214	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3215	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3219	Other organ or system involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M328	Other forms of systemic lupus erythematosus	Diagnosis	ICD-10-CM
M329	Systemic lupus erythematosus, unspecified	Diagnosis	ICD-10-CM
L40	Psoriasis	Diagnosis	ICD-10-CM
L400	Psoriasis vulgaris	Diagnosis	ICD-10-CM
L401	Generalized pustular psoriasis	Diagnosis	ICD-10-CM
L404	Guttate psoriasis	Diagnosis	ICD-10-CM
L405	Arthropathic psoriasis	Diagnosis	ICD-10-CM
L4050	Arthropathic psoriasis, unspecified	Diagnosis	ICD-10-CM
L408	Other psoriasis	Diagnosis	ICD-10-CM
L409	Psoriasis, unspecified	Diagnosis	ICD-10-CM
L41	Parapsoriasis	Diagnosis	ICD-10-CM
L413	Small plaque parapsoriasis	Diagnosis	ICD-10-CM
L414	Large plaque parapsoriasis	Diagnosis	ICD-10-CM
L415	Retiform parapsoriasis	Diagnosis	ICD-10-CM
L418	Other parapsoriasis	Diagnosis	ICD-10-CM
L419	Parapsoriasis, unspecified	Diagnosis	ICD-10-CM
L4052	Psoriatic arthritis mutilans	Diagnosis	ICD-10-CM
M350	Sicca syndrome [Sjogren]	Diagnosis	ICD-10-CM
M3500	Sicca syndrome, unspecified	Diagnosis	ICD-10-CM
M3501	Sicca syndrome with keratoconjunctivitis	Diagnosis	ICD-10-CM
M3502	Sicca syndrome with lung involvement	Diagnosis	ICD-10-CM
M3503	Sicca syndrome with myopathy	Diagnosis	ICD-10-CM
M3504	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M3509	Sicca syndrome with other organ involvement	Diagnosis	ICD-10-CM
M081	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M45	Ankylosing spondylitis	Diagnosis	ICD-10-CM
M450	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M451	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M452	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M453	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M454	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M455	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M456	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M457	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M458	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M459	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
L940	Localized scleroderma [morphea]	Diagnosis	ICD-10-CM
L941	Linear scleroderma	Diagnosis	ICD-10-CM
M34	Systemic sclerosis [scleroderma]	Diagnosis	ICD-10-CM
M08	Juvenile arthritis	Diagnosis	ICD-10-CM
M088	Other juvenile arthritis	Diagnosis	ICD-10-CM
M0880	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M0881	Other juvenile arthritis, shoulder	Diagnosis	ICD-10-CM
M08811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M08819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M0882	Other juvenile arthritis, elbow	Diagnosis	ICD-10-CM
M08821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M0883	Other juvenile arthritis, wrist	Diagnosis	ICD-10-CM
M08831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M0884	Other juvenile arthritis, hand	Diagnosis	ICD-10-CM
M08841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M0885	Other juvenile arthritis, hip	Diagnosis	ICD-10-CM
M08851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M0886	Other juvenile arthritis, knee	Diagnosis	ICD-10-CM
M08861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M0887	Other juvenile arthritis, ankle and foot	Diagnosis	ICD-10-CM
M08871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0888	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M0889	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M089	Juvenile arthritis, unspecified	Diagnosis	ICD-10-CM
M0890	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M0891	Juvenile arthritis, unspecified, shoulder	Diagnosis	ICD-10-CM
M08911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M0892	Juvenile arthritis, unspecified, elbow	Diagnosis	ICD-10-CM
M08921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M0893	Juvenile arthritis, unspecified, wrist	Diagnosis	ICD-10-CM
M08931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M0894	Juvenile arthritis, unspecified, hand	Diagnosis	ICD-10-CM
M08941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M0895	Juvenile arthritis, unspecified, hip	Diagnosis	ICD-10-CM
M08951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M0896	Juvenile arthritis, unspecified, knee	Diagnosis	ICD-10-CM
M08961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M0897	Juvenile arthritis, unspecified, ankle and foot	Diagnosis	ICD-10-CM
M08971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0898	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M0899	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
D860	Sarcoidosis of lung	Diagnosis	ICD-10-CM
D861	Sarcoidosis of lymph nodes	Diagnosis	ICD-10-CM
D862	Sarcoidosis of lung with sarcoidosis of lymph nodes	Diagnosis	ICD-10-CM
D863	Sarcoidosis of skin	Diagnosis	ICD-10-CM
D8681	Sarcoid meningitis	Diagnosis	ICD-10-CM
D8682	Multiple cranial nerve palsies in sarcoidosis	Diagnosis	ICD-10-CM
D8683	Sarcoid iridocyclitis	Diagnosis	ICD-10-CM
D8684	Sarcoid pyelonephritis	Diagnosis	ICD-10-CM
D8685	Sarcoid myocarditis	Diagnosis	ICD-10-CM
D8686	Sarcoid arthropathy	Diagnosis	ICD-10-CM
D8687	Sarcoid myositis	Diagnosis	ICD-10-CM
D8689	Sarcoidosis of other sites	Diagnosis	ICD-10-CM
D869	Sarcoidosis, unspecified	Diagnosis	ICD-10-CM
E850	Non-neuropathic hereditary amyloidosis	Diagnosis	ICD-10-CM
E851	Neuropathic hereditary amyloidosis	Diagnosis	ICD-10-CM
E852	Hereditary amyloidosis, unspecified	Diagnosis	ICD-10-CM
E853	Secondary systemic amyloidosis	Diagnosis	ICD-10-CM
E854	Organ-limited amyloidosis	Diagnosis	ICD-10-CM
E8581	Light chain (AL) amyloidosis	Diagnosis	ICD-10-CM
E8582	Wild-type transthyretin-related (ATTR) amyloidosis	Diagnosis	ICD-10-CM
E8589	Other amyloidosis	Diagnosis	ICD-10-CM
E859	Amyloidosis, unspecified	Diagnosis	ICD-10-CM
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
G360	Neuromyelitis optica [Devic]	Diagnosis	ICD-10-CM
G370	Diffuse sclerosis of central nervous system	Diagnosis	ICD-10-CM
G371	Central demyelination of corpus callosum	Diagnosis	ICD-10-CM
G372	Central pontine myelinolysis	Diagnosis	ICD-10-CM
G373	Acute transverse myelitis in demyelinating disease of central nervous system	Diagnosis	ICD-10-CM
G374	Subacute necrotizing myelitis of central nervous system	Diagnosis	ICD-10-CM
G375	Concentric sclerosis [Balo] of central nervous system	Diagnosis	ICD-10-CM
G378	Other specified demyelinating diseases of central nervous system	Diagnosis	ICD-10-CM
G6181	Chronic inflammatory demyelinating polyneuritis	Diagnosis	ICD-10-CM
G6182	Multifocal motor neuropathies (inflammatory)	Diagnosis	ICD-10-CM
G6189	Other inflammatory polyneuropathies	Diagnosis	ICD-10-CM
G619	Inflammatory polyneuropathy, unspecified	Diagnosis	ICD-10-CM
G622	Polyneuropathy due to other toxic agents	Diagnosis	ICD-10-CM
G6281	Critical illness polyneuropathy	Diagnosis	ICD-10-CM
G63	Polyneuropathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
I408	Other acute myocarditis	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
I409	Acute myocarditis, unspecified	Diagnosis	ICD-10-CM
I41	Myocarditis in diseases classified elsewhere	Diagnosis	ICD-10-CM
J679	Hypersensitivity pneumonitis due to unspecified organic dust	Diagnosis	ICD-10-CM
J8401	Alveolar proteinosis	Diagnosis	ICD-10-CM
J8402	Pulmonary alveolar microlithiasis	Diagnosis	ICD-10-CM
J8409	Other alveolar and parieto-alveolar conditions	Diagnosis	ICD-10-CM
J84111	Idiopathic interstitial pneumonia, not otherwise specified	Diagnosis	ICD-10-CM
J84112	Idiopathic pulmonary fibrosis	Diagnosis	ICD-10-CM
J84113	Idiopathic non-specific interstitial pneumonitis	Diagnosis	ICD-10-CM
J84114	Acute interstitial pneumonitis	Diagnosis	ICD-10-CM
J84115	Respiratory bronchiolitis interstitial lung disease	Diagnosis	ICD-10-CM
J84116	Cryptogenic organizing pneumonia	Diagnosis	ICD-10-CM
J84117	Desquamative interstitial pneumonia	Diagnosis	ICD-10-CM
J842	Lymphoid interstitial pneumonia	Diagnosis	ICD-10-CM
J8481	Lymphangioleiomyomatosis	Diagnosis	ICD-10-CM
J8482	Adult pulmonary Langerhans cell histiocytosis	Diagnosis	ICD-10-CM
J8483	Surfactant mutations of the lung	Diagnosis	ICD-10-CM
J84841	Neuroendocrine cell hyperplasia of infancy	Diagnosis	ICD-10-CM
J84842	Pulmonary interstitial glycogenosis	Diagnosis	ICD-10-CM
J84843	Alveolar capillary dysplasia with vein misalignment	Diagnosis	ICD-10-CM
J84848	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
K5000	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50011	Crohn's disease of small intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50012	Crohn's disease of small intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50013	Crohn's disease of small intestine with fistula	Diagnosis	ICD-10-CM
K50014	Crohn's disease of small intestine with abscess	Diagnosis	ICD-10-CM
K50018	Crohn's disease of small intestine with other complication	Diagnosis	ICD-10-CM
K50019	Crohn's disease of small intestine with unspecified complications	Diagnosis	ICD-10-CM
K5010	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K5080	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50811	Crohn's disease of both small and large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50812	Crohn's disease of both small and large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50813	Crohn's disease of both small and large intestine with fistula	Diagnosis	ICD-10-CM
K50814	Crohn's disease of both small and large intestine with abscess	Diagnosis	ICD-10-CM
K50818	Crohn's disease of both small and large intestine with other complication	Diagnosis	ICD-10-CM
K50819	Crohn's disease of both small and large intestine with unspecified complications	Diagnosis	ICD-10-CM
K5090	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
K5100	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K5120	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K5130	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K5140	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K5150	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K5180	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM
K51811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K5190	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
K520	Gastroenteritis and colitis due to radiation	Diagnosis	ICD-10-CM
K521	Toxic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K5221	Allergic and dietetic gastroenteritis and colitis ,Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K5222	Allergic and dietetic gastroenteritis and colitis,Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K5229	Allergic and dietetic gastroenteritis and colitis,Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K5281	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K5282	Eosinophilic colitis	Diagnosis	ICD-10-CM
K5289	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K529	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
K55011	Acute (reversible) ischemia of small intestine,Focal (segmental) acute (reversible) ischemia of small intestine	Diagnosis	ICD-10-CM
K55012	Acute (reversible) ischemia of small intestine,Diffuse acute (reversible) ischemia of small intestine	Diagnosis	ICD-10-CM
K55019	Acute (reversible) ischemia of small intestine,extent unspecified	Diagnosis	ICD-10-CM
K551	Chronic vascular disorders of intestine	Diagnosis	ICD-10-CM
K559	Vascular disorder of intestine, unspecified	Diagnosis	ICD-10-CM
I400	Infective myocarditis	Diagnosis	ICD-10-CM
I401	Isolated myocarditis	Diagnosis	ICD-10-CM
L930	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
M02	Postinfective and reactive arthropathies	Diagnosis	ICD-10-CM
M020	Arthropathy following intestinal bypass	Diagnosis	ICD-10-CM
M0200	Arthropathy following intestinal bypass, unspecified site	Diagnosis	ICD-10-CM
M0201	Arthropathy following intestinal bypass, shoulder	Diagnosis	ICD-10-CM
M02011	Arthropathy following intestinal bypass, right shoulder	Diagnosis	ICD-10-CM
M02012	Arthropathy following intestinal bypass, left shoulder	Diagnosis	ICD-10-CM
M02019	Arthropathy following intestinal bypass, unspecified shoulder	Diagnosis	ICD-10-CM
M0202	Arthropathy following intestinal bypass, elbow	Diagnosis	ICD-10-CM
M02021	Arthropathy following intestinal bypass, right elbow	Diagnosis	ICD-10-CM
M02022	Arthropathy following intestinal bypass, left elbow	Diagnosis	ICD-10-CM
M02029	Arthropathy following intestinal bypass, unspecified elbow	Diagnosis	ICD-10-CM
M0203	Arthropathy following intestinal bypass, wrist	Diagnosis	ICD-10-CM
M02031	Arthropathy following intestinal bypass, right wrist	Diagnosis	ICD-10-CM
M02032	Arthropathy following intestinal bypass, left wrist	Diagnosis	ICD-10-CM
M02039	Arthropathy following intestinal bypass, unspecified wrist	Diagnosis	ICD-10-CM
M0204	Arthropathy following intestinal bypass, hand	Diagnosis	ICD-10-CM
M02041	Arthropathy following intestinal bypass, right hand	Diagnosis	ICD-10-CM
M02042	Arthropathy following intestinal bypass, left hand	Diagnosis	ICD-10-CM
M02049	Arthropathy following intestinal bypass, unspecified hand	Diagnosis	ICD-10-CM
M0205	Arthropathy following intestinal bypass, hip	Diagnosis	ICD-10-CM
M02051	Arthropathy following intestinal bypass, right hip	Diagnosis	ICD-10-CM
M02052	Arthropathy following intestinal bypass, left hip	Diagnosis	ICD-10-CM
M02059	Arthropathy following intestinal bypass, unspecified hip	Diagnosis	ICD-10-CM
M0206	Arthropathy following intestinal bypass, knee	Diagnosis	ICD-10-CM
M02061	Arthropathy following intestinal bypass, right knee	Diagnosis	ICD-10-CM
M02062	Arthropathy following intestinal bypass, left knee	Diagnosis	ICD-10-CM
M02069	Arthropathy following intestinal bypass, unspecified knee	Diagnosis	ICD-10-CM
M0207	Arthropathy following intestinal bypass, ankle and foot	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M02071	Arthropathy following intestinal bypass, right ankle and foot	Diagnosis	ICD-10-CM
M02072	Arthropathy following intestinal bypass, left ankle and foot	Diagnosis	ICD-10-CM
M02079	Arthropathy following intestinal bypass, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0208	Arthropathy following intestinal bypass, vertebrae	Diagnosis	ICD-10-CM
M0209	Arthropathy following intestinal bypass, multiple sites	Diagnosis	ICD-10-CM
M021	Postdysenteric arthropathy	Diagnosis	ICD-10-CM
M0210	Postdysenteric arthropathy, unspecified site	Diagnosis	ICD-10-CM
M0211	Postdysenteric arthropathy, shoulder	Diagnosis	ICD-10-CM
M02111	Postdysenteric arthropathy, right shoulder	Diagnosis	ICD-10-CM
M02112	Postdysenteric arthropathy, left shoulder	Diagnosis	ICD-10-CM
M02119	Postdysenteric arthropathy, unspecified shoulder	Diagnosis	ICD-10-CM
M0212	Postdysenteric arthropathy, elbow	Diagnosis	ICD-10-CM
M02121	Postdysenteric arthropathy, right elbow	Diagnosis	ICD-10-CM
M02122	Postdysenteric arthropathy, left elbow	Diagnosis	ICD-10-CM
M02129	Postdysenteric arthropathy, unspecified elbow	Diagnosis	ICD-10-CM
M0213	Postdysenteric arthropathy, wrist	Diagnosis	ICD-10-CM
M02131	Postdysenteric arthropathy, right wrist	Diagnosis	ICD-10-CM
M02132	Postdysenteric arthropathy, left wrist	Diagnosis	ICD-10-CM
M02139	Postdysenteric arthropathy, unspecified wrist	Diagnosis	ICD-10-CM
M0214	Postdysenteric arthropathy, hand	Diagnosis	ICD-10-CM
M02141	Postdysenteric arthropathy, right hand	Diagnosis	ICD-10-CM
M02142	Postdysenteric arthropathy, left hand	Diagnosis	ICD-10-CM
M02149	Postdysenteric arthropathy, unspecified hand	Diagnosis	ICD-10-CM
M0215	Postdysenteric arthropathy, hip	Diagnosis	ICD-10-CM
M02151	Postdysenteric arthropathy, right hip	Diagnosis	ICD-10-CM
M02152	Postdysenteric arthropathy, left hip	Diagnosis	ICD-10-CM
M02159	Postdysenteric arthropathy, unspecified hip	Diagnosis	ICD-10-CM
M0216	Postdysenteric arthropathy, knee	Diagnosis	ICD-10-CM
M02161	Postdysenteric arthropathy, right knee	Diagnosis	ICD-10-CM
M02162	Postdysenteric arthropathy, left knee	Diagnosis	ICD-10-CM
M02169	Postdysenteric arthropathy, unspecified knee	Diagnosis	ICD-10-CM
M0217	Postdysenteric arthropathy, ankle and foot	Diagnosis	ICD-10-CM
M02171	Postdysenteric arthropathy, right ankle and foot	Diagnosis	ICD-10-CM
M02172	Postdysenteric arthropathy, left ankle and foot	Diagnosis	ICD-10-CM
M02179	Postdysenteric arthropathy, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0218	Postdysenteric arthropathy, vertebrae	Diagnosis	ICD-10-CM
M0219	Postdysenteric arthropathy, multiple sites	Diagnosis	ICD-10-CM
M022	Postimmunization arthropathy	Diagnosis	ICD-10-CM
M0220	Postimmunization arthropathy, unspecified site	Diagnosis	ICD-10-CM
M0221	Postimmunization arthropathy, shoulder	Diagnosis	ICD-10-CM
M02211	Postimmunization arthropathy, right shoulder	Diagnosis	ICD-10-CM
M02212	Postimmunization arthropathy, left shoulder	Diagnosis	ICD-10-CM
M02219	Postimmunization arthropathy, unspecified shoulder	Diagnosis	ICD-10-CM
M0222	Postimmunization arthropathy, elbow	Diagnosis	ICD-10-CM
M02221	Postimmunization arthropathy, right elbow	Diagnosis	ICD-10-CM
M02222	Postimmunization arthropathy, left elbow	Diagnosis	ICD-10-CM
M02229	Postimmunization arthropathy, unspecified elbow	Diagnosis	ICD-10-CM
M0223	Postimmunization arthropathy, wrist	Diagnosis	ICD-10-CM
M02231	Postimmunization arthropathy, right wrist	Diagnosis	ICD-10-CM

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M02232	Postimmunization arthropathy, left wrist	Diagnosis	ICD-10-CM
M02239	Postimmunization arthropathy, unspecified wrist	Diagnosis	ICD-10-CM
M0224	Postimmunization arthropathy, hand	Diagnosis	ICD-10-CM
M02241	Postimmunization arthropathy, right hand	Diagnosis	ICD-10-CM
M02242	Postimmunization arthropathy, left hand	Diagnosis	ICD-10-CM
M02249	Postimmunization arthropathy, unspecified hand	Diagnosis	ICD-10-CM
M0225	Postimmunization arthropathy, hip	Diagnosis	ICD-10-CM
M02251	Postimmunization arthropathy, right hip	Diagnosis	ICD-10-CM
M02252	Postimmunization arthropathy, left hip	Diagnosis	ICD-10-CM
M02259	Postimmunization arthropathy, unspecified hip	Diagnosis	ICD-10-CM
M0226	Postimmunization arthropathy, knee	Diagnosis	ICD-10-CM
M02261	Postimmunization arthropathy, right knee	Diagnosis	ICD-10-CM
M02262	Postimmunization arthropathy, left knee	Diagnosis	ICD-10-CM
M02269	Postimmunization arthropathy, unspecified knee	Diagnosis	ICD-10-CM
M0227	Postimmunization arthropathy, ankle and foot	Diagnosis	ICD-10-CM
M02271	Postimmunization arthropathy, right ankle and foot	Diagnosis	ICD-10-CM
M02272	Postimmunization arthropathy, left ankle and foot	Diagnosis	ICD-10-CM
M02279	Postimmunization arthropathy, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0228	Postimmunization arthropathy, vertebrae	Diagnosis	ICD-10-CM
M0229	Postimmunization arthropathy, multiple sites	Diagnosis	ICD-10-CM
M023	Reiter's disease	Diagnosis	ICD-10-CM
M0230	Reiter's disease, unspecified site	Diagnosis	ICD-10-CM
M0231	Reiter's disease, shoulder	Diagnosis	ICD-10-CM
M02311	Reiter's disease, right shoulder	Diagnosis	ICD-10-CM
M02312	Reiter's disease, left shoulder	Diagnosis	ICD-10-CM
M02319	Reiter's disease, unspecified shoulder	Diagnosis	ICD-10-CM
M0232	Reiter's disease, elbow	Diagnosis	ICD-10-CM
M02321	Reiter's disease, right elbow	Diagnosis	ICD-10-CM
M02322	Reiter's disease, left elbow	Diagnosis	ICD-10-CM
M02329	Reiter's disease, unspecified elbow	Diagnosis	ICD-10-CM
M0233	Reiter's disease, wrist	Diagnosis	ICD-10-CM
M02331	Reiter's disease, right wrist	Diagnosis	ICD-10-CM
M02332	Reiter's disease, left wrist	Diagnosis	ICD-10-CM
M02339	Reiter's disease, unspecified wrist	Diagnosis	ICD-10-CM
M0234	Reiter's disease, hand	Diagnosis	ICD-10-CM
M02341	Reiter's disease, right hand	Diagnosis	ICD-10-CM
M02342	Reiter's disease, left hand	Diagnosis	ICD-10-CM
M02349	Reiter's disease, unspecified hand	Diagnosis	ICD-10-CM
M0235	Reiter's disease, hip	Diagnosis	ICD-10-CM
M02351	Reiter's disease, right hip	Diagnosis	ICD-10-CM
M02352	Reiter's disease, left hip	Diagnosis	ICD-10-CM
M02359	Reiter's disease, unspecified hip	Diagnosis	ICD-10-CM
M0236	Reiter's disease, knee	Diagnosis	ICD-10-CM
M02361	Reiter's disease, right knee	Diagnosis	ICD-10-CM
M02362	Reiter's disease, left knee	Diagnosis	ICD-10-CM
M02369	Reiter's disease, unspecified knee	Diagnosis	ICD-10-CM
M0237	Reiter's disease, ankle and foot	Diagnosis	ICD-10-CM
M02371	Reiter's disease, right ankle and foot	Diagnosis	ICD-10-CM
M02372	Reiter's disease, left ankle and foot	Diagnosis	ICD-10-CM



**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
M02379	Reiter's disease, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0238	Reiter's disease, vertebrae	Diagnosis	ICD-10-CM
M0239	Reiter's disease, multiple sites	Diagnosis	ICD-10-CM
M028	Other reactive arthropathies	Diagnosis	ICD-10-CM
M0280	Other reactive arthropathies, unspecified site	Diagnosis	ICD-10-CM
M0281	Other reactive arthropathies, shoulder	Diagnosis	ICD-10-CM
M02811	Other reactive arthropathies, right shoulder	Diagnosis	ICD-10-CM
M02812	Other reactive arthropathies, left shoulder	Diagnosis	ICD-10-CM
M02819	Other reactive arthropathies, unspecified shoulder	Diagnosis	ICD-10-CM
M0282	Other reactive arthropathies, elbow	Diagnosis	ICD-10-CM
M02821	Other reactive arthropathies, right elbow	Diagnosis	ICD-10-CM
M02822	Other reactive arthropathies, left elbow	Diagnosis	ICD-10-CM
M02829	Other reactive arthropathies, unspecified elbow	Diagnosis	ICD-10-CM
M0283	Other reactive arthropathies, wrist	Diagnosis	ICD-10-CM
M02831	Other reactive arthropathies, right wrist	Diagnosis	ICD-10-CM
M02832	Other reactive arthropathies, left wrist	Diagnosis	ICD-10-CM
M02839	Other reactive arthropathies, unspecified wrist	Diagnosis	ICD-10-CM
M0284	Other reactive arthropathies, hand	Diagnosis	ICD-10-CM
M02841	Other reactive arthropathies, right hand	Diagnosis	ICD-10-CM
M02842	Other reactive arthropathies, left hand	Diagnosis	ICD-10-CM
M02849	Other reactive arthropathies, unspecified hand	Diagnosis	ICD-10-CM
M0285	Other reactive arthropathies, hip	Diagnosis	ICD-10-CM
M02851	Other reactive arthropathies, right hip	Diagnosis	ICD-10-CM
M02852	Other reactive arthropathies, left hip	Diagnosis	ICD-10-CM
M02859	Other reactive arthropathies, unspecified hip	Diagnosis	ICD-10-CM
M0286	Other reactive arthropathies, knee	Diagnosis	ICD-10-CM
M02861	Other reactive arthropathies, right knee	Diagnosis	ICD-10-CM
M02862	Other reactive arthropathies, left knee	Diagnosis	ICD-10-CM
M02869	Other reactive arthropathies, unspecified knee	Diagnosis	ICD-10-CM
M0287	Other reactive arthropathies, ankle and foot	Diagnosis	ICD-10-CM
M02871	Other reactive arthropathies, right ankle and foot	Diagnosis	ICD-10-CM
M02872	Other reactive arthropathies, left ankle and foot	Diagnosis	ICD-10-CM
M02879	Other reactive arthropathies, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0288	Other reactive arthropathies, vertebrae	Diagnosis	ICD-10-CM
M0289	Other reactive arthropathies, multiple sites	Diagnosis	ICD-10-CM
M029	Reactive arthropathy, unspecified	Diagnosis	ICD-10-CM
M04	Autoinflammatory syndromes	Diagnosis	ICD-10-CM
M041	Periodic fever syndromes	Diagnosis	ICD-10-CM
M042	Cryopyrin-associated periodic syndromes	Diagnosis	ICD-10-CM
M048	Other autoinflammatory syndromes	Diagnosis	ICD-10-CM
M049	Autoinflammatory syndrome, unspecified	Diagnosis	ICD-10-CM
M050	Felty's syndrome	Diagnosis	ICD-10-CM
M0500	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M0501	Felty's syndrome, shoulder	Diagnosis	ICD-10-CM
M05011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M0502	Felty's syndrome, elbow	Diagnosis	ICD-10-CM
M05021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M05022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M0503	Felty's syndrome, wrist	Diagnosis	ICD-10-CM
M05031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M0504	Felty's syndrome, hand	Diagnosis	ICD-10-CM
M05041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M0505	Felty's syndrome, hip	Diagnosis	ICD-10-CM
M05051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M0506	Felty's syndrome, knee	Diagnosis	ICD-10-CM
M05061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M0507	Felty's syndrome, ankle and foot	Diagnosis	ICD-10-CM
M05071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0509	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M061	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M062	Rheumatoid bursitis	Diagnosis	ICD-10-CM
M0620	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M0621	Rheumatoid bursitis, shoulder	Diagnosis	ICD-10-CM
M06211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M0622	Rheumatoid bursitis, elbow	Diagnosis	ICD-10-CM
M06221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M0623	Rheumatoid bursitis, wrist	Diagnosis	ICD-10-CM
M06231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M0624	Rheumatoid bursitis, hand	Diagnosis	ICD-10-CM
M06241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M0625	Rheumatoid bursitis, hip	Diagnosis	ICD-10-CM
M06251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M0626	Rheumatoid bursitis, knee	Diagnosis	ICD-10-CM
M06261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M06269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M0627	Rheumatoid bursitis, ankle and foot	Diagnosis	ICD-10-CM
M06271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0628	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M0629	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M063	Rheumatoid nodule	Diagnosis	ICD-10-CM
M0630	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M0631	Rheumatoid nodule, shoulder	Diagnosis	ICD-10-CM
M06311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M0632	Rheumatoid nodule, elbow	Diagnosis	ICD-10-CM
M06321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M0633	Rheumatoid nodule, wrist	Diagnosis	ICD-10-CM
M06331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M0634	Rheumatoid nodule, hand	Diagnosis	ICD-10-CM
M06341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M0635	Rheumatoid nodule, hip	Diagnosis	ICD-10-CM
M06351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M0636	Rheumatoid nodule, knee	Diagnosis	ICD-10-CM
M06361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M0637	Rheumatoid nodule, ankle and foot	Diagnosis	ICD-10-CM
M06371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M0638	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M0639	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M064	Inflammatory polyarthropathy	Diagnosis	ICD-10-CM
M083	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M1200	Chronic postrheumatic arthropathy [Jaccoud], unspecified site	Diagnosis	ICD-10-CM
M300	Polyarteritis nodosa	Diagnosis	ICD-10-CM
M301	Polyarteritis with lung involvement [Churg-Strauss]	Diagnosis	ICD-10-CM
M302	Juvenile polyarteritis	Diagnosis	ICD-10-CM
M303	Mucocutaneous lymph node syndrome [Kawasaki]	Diagnosis	ICD-10-CM
M308	Other conditions related to polyarteritis nodosa	Diagnosis	ICD-10-CM
M310	Hypersensitivity angiitis	Diagnosis	ICD-10-CM
M311	Thrombotic microangiopathy	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M312	Lethal midline granuloma	Diagnosis	ICD-10-CM
M3130	Wegener's granulomatosis without renal involvement	Diagnosis	ICD-10-CM
M3131	Wegener's granulomatosis with renal involvement	Diagnosis	ICD-10-CM
M314	Aortic arch syndrome [Takayasu]	Diagnosis	ICD-10-CM
M315	Giant cell arteritis with polymyalgia rheumatica	Diagnosis	ICD-10-CM
M316	Other giant cell arteritis	Diagnosis	ICD-10-CM
M317	Microscopic polyangiitis	Diagnosis	ICD-10-CM
M318	Other specified necrotizing vasculopathies	Diagnosis	ICD-10-CM
M319	Necrotizing vasculopathy, unspecified	Diagnosis	ICD-10-CM
M3300	Juvenile dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M3301	Juvenile dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M3302	Juvenile dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M3309	Juvenile dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M3310	Other dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M3311	Other dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M3312	Other dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M3313	Other dermatomyositis without myopathy	Diagnosis	ICD-10-CM
M3319	Other dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M3320	Polymyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M3321	Polymyositis with respiratory involvement	Diagnosis	ICD-10-CM
M3322	Polymyositis with myopathy	Diagnosis	ICD-10-CM
M3329	Polymyositis with other organ involvement	Diagnosis	ICD-10-CM
M3390	Dermatomyositis, unspecified, organ involvement unspecified	Diagnosis	ICD-10-CM
M3391	Dermatomyositis, unspecified with respiratory involvement	Diagnosis	ICD-10-CM
M3392	Dermatomyositis, unspecified with myopathy	Diagnosis	ICD-10-CM
M3393	Dermatomyositis, unspecified without myopathy	Diagnosis	ICD-10-CM
M3399	Dermatomyositis, unspecified with other organ involvement	Diagnosis	ICD-10-CM
M340	Systemic sclerosis [scleroderma], Progressive systemic sclerosis	Diagnosis	ICD-10-CM
M341	Systemic sclerosis [scleroderma] , CR(E)ST syndrome	Diagnosis	ICD-10-CM
M342	Systemic sclerosis induced by drug and chemical	Diagnosis	ICD-10-CM
M3481	Systemic sclerosis with lung involvement	Diagnosis	ICD-10-CM
M3482	Systemic sclerosis with myopathy	Diagnosis	ICD-10-CM
M3483	Systemic sclerosis with polyneuropathy	Diagnosis	ICD-10-CM
M3489	Other systemic sclerosis	Diagnosis	ICD-10-CM
M349	Systemic sclerosis, unspecified	Diagnosis	ICD-10-CM
M351	Other overlap syndromes	Diagnosis	ICD-10-CM
M352	Behcet's disease	Diagnosis	ICD-10-CM
M353	Polymyalgia rheumatica	Diagnosis	ICD-10-CM
M354	Diffuse (eosinophilic) fasciitis	Diagnosis	ICD-10-CM
M355	Multifocal fibrosclerosis	Diagnosis	ICD-10-CM
M356	Relapsing panniculitis [weber-christian]	Diagnosis	ICD-10-CM
M358	Other specified systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M359	Systemic involvement of connective tissue, unspecified	Diagnosis	ICD-10-CM
M360	Dermato(poly)myositis in neoplastic disease	Diagnosis	ICD-10-CM
M368	Systemic disorders of connective tissue in other diseases classified elsewhere	Diagnosis	ICD-10-CM
M4600	Spinal enthesopathy, site unspecified	Diagnosis	ICD-10-CM
M4601	Spinal enthesopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M4602	Spinal enthesopathy, cervical region	Diagnosis	ICD-10-CM
M4603	Spinal enthesopathy, cervicothoracic region	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
M4604	Spinal enthesopathy, thoracic region	Diagnosis	ICD-10-CM
M4605	Spinal enthesopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M4606	Spinal enthesopathy, lumbar region	Diagnosis	ICD-10-CM
M4607	Spinal enthesopathy, lumbosacral region	Diagnosis	ICD-10-CM
M4608	Spinal enthesopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M4609	Spinal enthesopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M461	Sacroiliitis, not elsewhere classified	Diagnosis	ICD-10-CM
<b>Sickle cell disease</b>			
D57	Sickle-cell disorders	Diagnosis	ICD-10-CM
D570	Hb-SS disease with crisis	Diagnosis	ICD-10-CM
D5700	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D5701	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D5702	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D571	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D572	Sickle-cell/Hb-C disease	Diagnosis	ICD-10-CM
D5720	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D5721	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-10-CM
D57211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D573	Sickle-cell trait	Diagnosis	ICD-10-CM
D574	Sickle-cell thalassemia	Diagnosis	ICD-10-CM
D5740	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D5741	Sickle-cell thalassemia with crisis	Diagnosis	ICD-10-CM
D57411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57419	Sickle-cell thalassemia with crisis, unspecified	Diagnosis	ICD-10-CM
D578	Other sickle-cell disorders	Diagnosis	ICD-10-CM
D5780	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D5781	Other sickle-cell disorders with crisis	Diagnosis	ICD-10-CM
D57811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D5703	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D5709	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57413	Sickle-cell thalassemia with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57418	Sickle-cell thalassemia with crisis with other specified complication	Diagnosis	ICD-10-CM
D5742	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57433	Sickle-cell thalassemia beta zero with cereb vascular invol	Diagnosis	ICD-10-CM
D57438	Sickle-cell thalassemia beta zero with crisis with oth comp	Diagnosis	ICD-10-CM
D57439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D5744	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
D57453	Sickle-cell thalassemia beta plus with cereb vascular invol	Diagnosis	ICD-10-CM
D57458	Sickle-cell thalassemia beta plus with crisis with oth comp	Diagnosis	ICD-10-CM
D57459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM
D578	Other sickle-cell disorders	Diagnosis	ICD-10-CM
D5781	Other sickle-cell disorders with crisis	Diagnosis	ICD-10-CM
D57813	Other sickle-cell disorders with cerebral vascular invol	Diagnosis	ICD-10-CM
D57818	Other sickle cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
J0791	Injection, crizanlizumab-tmca, 5 mg	Procedure	HCPCS
<b>Smoking</b>			
F17200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F1721	Nicotine dependence, cigarettes	Diagnosis	ICD-10-CM
F17210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F1722	Nicotine dependence, chewing tobacco	Diagnosis	ICD-10-CM
F17220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F1729	Nicotine dependence, other tobacco product	Diagnosis	ICD-10-CM
F17290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
O99330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
T6521	Toxic effect of chewing tobacco	Diagnosis	ICD-10-CM
T65211	Toxic effect of chewing tobacco, accidental (unintentional)	Diagnosis	ICD-10-CM
T65212	Toxic effect of chewing tobacco, intentional self-harm	Diagnosis	ICD-10-CM
T65213	Toxic effect of chewing tobacco, assault	Diagnosis	ICD-10-CM
T65214	Toxic effect of chewing tobacco, undetermined	Diagnosis	ICD-10-CM
Z716	Tobacco abuse counseling	Diagnosis	ICD-10-CM
Z720	Tobacco use	Diagnosis	ICD-10-CM
Z87891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
4001F	Tobacco use cessation intervention, pharmacologic therapy (COPD, CAD, CAP, PV, Asthma)	Procedure	CPT
	(DM) (PV)		Category II
S4995	Smoking cessation gum	Procedure	HCPCS

**Appendix J. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Pre-Existing Or At-Risk Medical Conditions**

Code	Description	Code	
		Category	Code Type
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
S9453	Smoking cessation classes, nonphysician provider, per session	Procedure	HCPCS
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
G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	Procedure	HCPCS
4004F	Patient screened for tobacco use and received tobacco cessation intervention (counseling, pharmacotherapy, or both), if identified as a tobacco user (PV, CAD)	Procedure	CPT Category II
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
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
1034F	Current tobacco smoker (CAD, CAP, COPD, PV) (DM)	Procedure	CPT Category II
T65211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM
S9075	Smoking cessation treatment	Procedure	HCPCS

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

Code	Description	Care Setting	Code Category	Code Type
<b>Obstetric conditions, overall</b>				
O102	Pre-existing hypertensive chronic kidney disease complicating pregnancy, childbirth and the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O1021	Pre-existing hypertensive chronic kidney disease complicating pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O10211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O10212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O10213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O10219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	IP* IS*	Diagnosis	ICD-10-CM
O1023	Pre-existing hypertensive chronic kidney disease complicating the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O103	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, childbirth and the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O1031	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O10311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O10312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O10313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O10319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	IP* IS*	Diagnosis	ICD-10-CM
O1033	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O131	Gestational [pregnancy-induced] hypertension without significant proteinuria, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O132	Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O133	Gestational [pregnancy-induced] hypertension without significant proteinuria, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	IP* IS*	Diagnosis	ICD-10-CM
O135	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O139	Gestational [pregnancy-induced] hypertension without significant proteinuria, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O142	HELLP syndrome	IP* IS*	Diagnosis	ICD-10-CM
O1420	HELLP syndrome (HELLP), unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O1422	HELLP syndrome (HELLP), second trimester	IP* IS*	Diagnosis	ICD-10-CM
O1423	HELLP syndrome (HELLP), third trimester	IP* IS*	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	IP* IS*	Diagnosis	ICD-10-CM



**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
O1425	HELLP syndrome, complicating the puerperium	IP* IS*	Diagnosis	ICD-10-CM
O210	Mild hyperemesis gravidarum	IP* IS*	Diagnosis	ICD-10-CM
O211	Hyperemesis gravidarum with metabolic disturbance	IP* IS*	Diagnosis	ICD-10-CM
O23	Infections of genitourinary tract in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O230	Infections of kidney in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2300	Infections of kidney in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2301	Infections of kidney in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2302	Infections of kidney in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2303	Infections of kidney in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O231	Infections of bladder in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2310	Infections of bladder in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2311	Infections of bladder in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2312	Infections of bladder in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2313	Infections of bladder in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O232	Infections of urethra in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2320	Infections of urethra in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2321	Infections of urethra in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2322	Infections of urethra in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2323	Infections of urethra in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O233	Infections of other parts of urinary tract in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2330	Infections of other parts of urinary tract in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2331	Infections of other parts of urinary tract in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2332	Infections of other parts of urinary tract in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2333	Infections of other parts of urinary tract in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O234	Unspecified infection of urinary tract in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2340	Unspecified infection of urinary tract in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2341	Unspecified infection of urinary tract in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2342	Unspecified infection of urinary tract in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2343	Unspecified infection of urinary tract in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O235	Infections of the genital tract in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O2351	Infection of cervix in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O23511	Infections of cervix in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O23512	Infections of cervix in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O23513	Infections of cervix in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O23519	Infections of cervix in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2352	Salpingo-oophoritis in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O23521	Salpingo-oophoritis in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O23522	Salpingo-oophoritis in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O23523	Salpingo-oophoritis in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O23529	Salpingo-oophoritis in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2359	Infection of other part of genital tract in pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O23591	Infection of other part of genital tract in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O23592	Infection of other part of genital tract in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O23593	Infection of other part of genital tract in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O23599	Infection of other part of genital tract in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O239	Unspecified genitourinary tract infection in pregnancy	IP* IS*	Diagnosis	ICD-10-CM

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
O2390	Unspecified genitourinary tract infection in pregnancy, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O2391	Unspecified genitourinary tract infection in pregnancy, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O2392	Unspecified genitourinary tract infection in pregnancy, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O2393	Unspecified genitourinary tract infection in pregnancy, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O4201	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture	IP* IS*	Diagnosis	ICD-10-CM
O42011	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture. first trimester	IP* IS*	Diagnosis	ICD-10-CM
O42012	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture. second trimester	IP* IS*	Diagnosis	ICD-10-CM
O42013	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture. third trimester	IP* IS*	Diagnosis	ICD-10-CM
O42019	Preterm premature rupture of membranes, onset of labor within 24 hours of rupture. unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4211	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture	IP* IS*	Diagnosis	ICD-10-CM
O42111	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture. first trimester	IP* IS*	Diagnosis	ICD-10-CM
O42112	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture. second trimester	IP* IS*	Diagnosis	ICD-10-CM
O42113	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture. third trimester	IP* IS*	Diagnosis	ICD-10-CM
O42119	Preterm premature rupture of membranes, onset of labor more than 24 hours following rupture. unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4291	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor	IP* IS*	Diagnosis	ICD-10-CM
O42911	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor. first trimester	IP* IS*	Diagnosis	ICD-10-CM
O42912	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor. second trimester	IP* IS*	Diagnosis	ICD-10-CM
O42913	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor. third trimester	IP* IS*	Diagnosis	ICD-10-CM
O42919	Preterm premature rupture of membranes, unspecified as to length of time between rupture and onset of labor. unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O450	Premature separation of placenta with coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O4500	Premature separation of placenta with coagulation defect, unspecified	IP* IS*	Diagnosis	ICD-10-CM
O45001	Premature separation of placenta with coagulation defect, unspecified, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O45002	Premature separation of placenta with coagulation defect, unspecified, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O45003	Premature separation of placenta with coagulation defect, unspecified, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O45009	Premature separation of placenta with coagulation defect, unspecified, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4501	Premature separation of placenta with afibrinogenemia	IP* IS*	Diagnosis	ICD-10-CM
O45011	Premature separation of placenta with afibrinogenemia, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O45012	Premature separation of placenta with afibrinogenemia, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O45013	Premature separation of placenta with afibrinogenemia, third trimester	IP* IS*	Diagnosis	ICD-10-CM

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
O45019	Premature separation of placenta with afibrinogenemia, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4502	Premature separation of placenta with disseminated intravascular coagulation	IP* IS*	Diagnosis	ICD-10-CM
O45021	Premature separation of placenta with disseminated intravascular coagulation, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O45022	Premature separation of placenta with disseminated intravascular coagulation, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O45023	Premature separation of placenta with disseminated intravascular coagulation, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O45029	Premature separation of placenta with disseminated intravascular coagulation, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4509	Premature separation of placenta with other coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O45091	Premature separation of placenta with other coagulation defect, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O45092	Premature separation of placenta with other coagulation defect, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O45093	Premature separation of placenta with other coagulation defect, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O45099	Premature separation of placenta with other coagulation defect, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O458	Other premature separation of placenta	IP* IS*	Diagnosis	ICD-10-CM
O458X	Other premature separation of placenta	IP* IS*	Diagnosis	ICD-10-CM
O458X1	Other premature separation of placenta, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O458X2	Other premature separation of placenta, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O458X3	Other premature separation of placenta, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O458X9	Other premature separation of placenta, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O459	Premature separation of placenta, unspecified	IP* IS*	Diagnosis	ICD-10-CM
O4590	Premature separation of placenta, unspecified, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4591	Premature separation of placenta, unspecified, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O4592	Premature separation of placenta, unspecified, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O4593	Premature separation of placenta, unspecified, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O46	Antepartum hemorrhage, not elsewhere classified	IP* IS*	Diagnosis	ICD-10-CM
O460	Antepartum hemorrhage with coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O4600	Antepartum hemorrhage with coagulation defect, unspecified	IP* IS*	Diagnosis	ICD-10-CM
O46001	Antepartum hemorrhage with coagulation defect, unspecified, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O46002	Antepartum hemorrhage with coagulation defect, unspecified, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O46003	Antepartum hemorrhage with coagulation defect, unspecified, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O46009	Antepartum hemorrhage with coagulation defect, unspecified, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4601	Antepartum hemorrhage with afibrinogenemia	IP* IS*	Diagnosis	ICD-10-CM
O46011	Antepartum hemorrhage with afibrinogenemia, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O46012	Antepartum hemorrhage with afibrinogenemia, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O46013	Antepartum hemorrhage with afibrinogenemia, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O46019	Antepartum hemorrhage with afibrinogenemia, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4602	Antepartum hemorrhage with disseminated intravascular coagulation	IP* IS*	Diagnosis	ICD-10-CM

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
O46021	Antepartum hemorrhage with disseminated intravascular coagulation, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O46022	Antepartum hemorrhage with disseminated intravascular coagulation, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O46023	Antepartum hemorrhage with disseminated intravascular coagulation, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O46029	Antepartum hemorrhage with disseminated intravascular coagulation, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4609	Antepartum hemorrhage with other coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O46091	Antepartum hemorrhage with other coagulation defect, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O46092	Antepartum hemorrhage with other coagulation defect, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O46093	Antepartum hemorrhage with other coagulation defect, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O46099	Antepartum hemorrhage with other coagulation defect, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O468	Other antepartum hemorrhage	IP* IS*	Diagnosis	ICD-10-CM
O468X	Other antepartum hemorrhage	IP* IS*	Diagnosis	ICD-10-CM
O468X1	Other antepartum hemorrhage, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O468X2	Other antepartum hemorrhage, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O468X3	Other antepartum hemorrhage, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O468X9	Other antepartum hemorrhage, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O469	Antepartum hemorrhage, unspecified	IP* IS*	Diagnosis	ICD-10-CM
O4690	Antepartum hemorrhage, unspecified, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4691	Antepartum hemorrhage, unspecified, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O4692	Antepartum hemorrhage, unspecified, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O4693	Antepartum hemorrhage, unspecified, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O600	Preterm labor without delivery	IP* IS*	Diagnosis	ICD-10-CM
O6000	Preterm labor without delivery, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O6002	Preterm labor without delivery, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O6003	Preterm labor without delivery, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O6012X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	IP* IS*	Diagnosis	ICD-10-CM
O6012X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	IP* IS*	Diagnosis	ICD-10-CM
O6012X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	IP* IS*	Diagnosis	ICD-10-CM
O6012X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	IP* IS*	Diagnosis	ICD-10-CM
O6012X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	IP* IS*	Diagnosis	ICD-10-CM
O6012X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	IP* IS*	Diagnosis	ICD-10-CM
O6012X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	IP* IS*	Diagnosis	ICD-10-CM
O6013X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	IP* IS*	Diagnosis	ICD-10-CM
O6013X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	IP* IS*	Diagnosis	ICD-10-CM
O6013X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	IP* IS*	Diagnosis	ICD-10-CM

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
O6013X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	IP* IS*	Diagnosis	ICD-10-CM
O6013X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	IP* IS*	Diagnosis	ICD-10-CM
O6013X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	IP* IS*	Diagnosis	ICD-10-CM
O6013X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	IP* IS*	Diagnosis	ICD-10-CM
O6014X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	IP* IS*	Diagnosis	ICD-10-CM
O6014X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	IP* IS*	Diagnosis	ICD-10-CM
O6014X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	IP* IS*	Diagnosis	ICD-10-CM
O6014X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	IP* IS*	Diagnosis	ICD-10-CM
O6014X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	IP* IS*	Diagnosis	ICD-10-CM
O6014X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	IP* IS*	Diagnosis	ICD-10-CM
O6014X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	IP* IS*	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O723	Postpartum coagulation defects	IP* IS*	Diagnosis	ICD-10-CM
P0720	Extreme immaturity of newborn, unspecified weeks of gestation	IP* IS*	Diagnosis	ICD-10-CM
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0730	Preterm newborn, unspecified weeks of gestation	IP* IS*	Diagnosis	ICD-10-CM
P0731	Preterm newborn, gestational age 28 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0732	Preterm newborn, gestational age 29 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0733	Preterm newborn, gestational age 30 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0734	Preterm newborn, gestational age 31 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0735	Preterm newborn, gestational age 32 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0736	Preterm newborn, gestational age 33 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0737	Preterm newborn, gestational age 34 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0738	Preterm newborn, gestational age 35 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
P0739	Preterm newborn, gestational age 36 completed weeks	IP* IS*	Diagnosis	ICD-10-CM
R10	Abdominal and pelvic pain	IP* IS*	Diagnosis	ICD-10-CM
Z3A20	20 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A21	21 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A22	22 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A23	23 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A24	24 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A25	25 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A26	26 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
Z3A27	27 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A28	28 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A29	29 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A30	30 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A31	31 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A32	32 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A33	33 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A34	34 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
Z3A35	35 weeks gestation of pregnancy	IP* IS*	Diagnosis	ICD-10-CM
O4590	Premature separation of placenta, unspecified, unspecified trimester	IP* IS*	Diagnosis	ICD-10-CM
O4591	Premature separation of placenta, unspecified, first trimester	IP* IS*	Diagnosis	ICD-10-CM
O4592	Premature separation of placenta, unspecified, second trimester	IP* IS*	Diagnosis	ICD-10-CM
O4593	Premature separation of placenta, unspecified, third trimester	IP* IS*	Diagnosis	ICD-10-CM
O670	Intrapartum hemorrhage with coagulation defect	IP* IS*	Diagnosis	ICD-10-CM
O723	Postpartum coagulation defects	IP* IS*	Diagnosis	ICD-10-CM
<b>Assisted reproductive technology</b>				
58321	ARTIFICIAL INSEMINATION; INTRA-CERVICAL	Any	Procedure	CPT-4
58322	ARTIFICIAL INSEMINATION	Any	Procedure	CPT-4
58974	TRANSFER OF EMBRYO	Any	Procedure	CPT-4
58976	Gamete, zygote, or embryo intrafallopian transfer	Any	Procedure	CPT-4
S4011	IN VITRO FERTILIZATION;	Any	Procedure	HCPCS
S4013	COMPLETE CYCLE GIFT CASE RATE	Any	Procedure	HCPCS
S4014	COMPLETE CYCLE ZIFT CASE RATE	Any	Procedure	HCPCS
S4015	COMPLETE IVF CYCLE CASE RATE NOS	Any	Procedure	HCPCS
S4016	FROZEN IVF CYCLE CASE RATE	Any	Procedure	HCPCS
S4035	STIMULATED INTRAUTERINE INSEMINATION (IUI), CASE RATE	Any	Procedure	HCPCS
S4037	Cryopreserved embryo transfer, case rate	Any	Procedure	HCPCS
<b>Caesarean section</b>				
O82	Encounter for cesarean delivery without indication	Any	Diagnosis	ICD-10-CM
P034	Newborn affected by Cesarean delivery	Any	Diagnosis	ICD-10-CM
O7582	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section	Any	Diagnosis	ICD-10-CM
Z3869	Other multiple liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
Z3864	Quadruplet liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
Z3866	Quintuplet liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
Z3801	Single liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
Z3862	Triplet liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
Z3831	Twin liveborn infant, delivered by cesarean	Any	Diagnosis	ICD-10-CM
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	Any	Procedure	CPT-4
59514	Cesarean delivery only;	Any	Procedure	CPT-4
59515	Cesarean delivery only; including postpartum care	Any	Procedure	CPT-4
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	Any	Procedure	CPT-4
59500	Cesarean Section, Low Cervical, Including In-hospital	Any	Procedure	CPT-4
59501	Cesarean Section, Low Cervical, Including In-hospital	Any	Procedure	CPT-4
59540	Cesarean Section, Extraperitoneal, Including In-hospital	Any	Procedure	CPT-4

**Appendix K. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Maternal Obstetric Conditions**

<b>Code</b>	<b>Description</b>	<b>Care Setting</b>	<b>Code Category</b>	<b>Code Type</b>
59541	Cesarean Section, Extraperitoneal, Including In-hospital	Any	Procedure	CPT-4
59560	Cesarean Section With Hysterectomy, Subtotal, Including	Any	Procedure	CPT-4
59561	Cesarean Section With Hysterectomy, Subtotal, Including	Any	Procedure	CPT-4
59580	Cesarean Section With Hysterectomy, Total, Including	Any	Procedure	CPT-4
59581	Cesarean Section With Hysterectomy, Total, Including	Any	Procedure	CPT-4

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code Category	Code Type
<b>Alcohol abuse</b>			
F1010	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F1011	Alcohol abuse, in remission	Diagnosis	ICD-10-CM
F10120	Alcohol abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10121	Alcohol abuse with intoxication delirium	Diagnosis	ICD-10-CM
F10129	Alcohol abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F1014	Alcohol abuse with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10151	Alcohol abuse with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10159	Alcohol abuse with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10180	Alcohol abuse with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10181	Alcohol abuse with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10182	Alcohol abuse with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10188	Alcohol abuse with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F1019	Alcohol abuse with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F1020	Alcohol dependence, uncomplicated	Diagnosis	ICD-10-CM
F1021	Alcohol dependence, in remission	Diagnosis	ICD-10-CM
F10220	Alcohol dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10221	Alcohol dependence with intoxication delirium	Diagnosis	ICD-10-CM
F10229	Alcohol dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F10230	Alcohol dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10231	Alcohol dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F10232	Alcohol dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10239	Alcohol dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F1024	Alcohol dependence with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10250	Alcohol dependence with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10251	Alcohol dependence with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10259	Alcohol dependence with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F1026	Alcohol dependence with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F1027	Alcohol dependence with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10280	Alcohol dependence with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10281	Alcohol dependence with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10282	Alcohol dependence with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10288	Alcohol dependence with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F1029	Alcohol dependence with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10920	Alcohol use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10921	Alcohol use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F10929	Alcohol use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F1094	Alcohol use, unspecified with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10950	Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10951	Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10959	Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F1096	Alcohol use, unspecified with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F1097	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F1099	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM



**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Asthma</b>			
J440	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J441	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J449	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J4520	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4521	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4522	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4530	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4531	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4532	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4540	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4541	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4542	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J4550	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J4551	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J4552	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45991	Cough variant asthma	Diagnosis	ICD-10-CM
J45998	Other asthma	Diagnosis	ICD-10-CM
<b>Cardiac valvular disease</b>			
A1884	Tuberculosis of heart	Diagnosis	ICD-10-CM
I050	Rheumatic mitral stenosis	Diagnosis	ICD-10-CM
I051	Rheumatic mitral insufficiency	Diagnosis	ICD-10-CM
I052	Rheumatic mitral stenosis with insufficiency	Diagnosis	ICD-10-CM
I058	Other rheumatic mitral valve diseases	Diagnosis	ICD-10-CM
I059	Rheumatic mitral valve disease, unspecified	Diagnosis	ICD-10-CM
I060	Rheumatic aortic stenosis	Diagnosis	ICD-10-CM
I061	Rheumatic aortic insufficiency	Diagnosis	ICD-10-CM
I062	Rheumatic aortic stenosis with insufficiency	Diagnosis	ICD-10-CM
I068	Other rheumatic aortic valve diseases	Diagnosis	ICD-10-CM
I069	Rheumatic aortic valve disease, unspecified	Diagnosis	ICD-10-CM
I070	Rheumatic tricuspid stenosis	Diagnosis	ICD-10-CM
I071	Rheumatic tricuspid insufficiency	Diagnosis	ICD-10-CM
I072	Rheumatic tricuspid stenosis and insufficiency	Diagnosis	ICD-10-CM
I078	Other rheumatic tricuspid valve diseases	Diagnosis	ICD-10-CM
I079	Rheumatic tricuspid valve disease, unspecified	Diagnosis	ICD-10-CM
I080	Rheumatic disorders of both mitral and aortic valves	Diagnosis	ICD-10-CM
I081	Rheumatic disorders of both mitral and tricuspid valves	Diagnosis	ICD-10-CM
I082	Rheumatic disorders of both aortic and tricuspid valves	Diagnosis	ICD-10-CM
I083	Combined rheumatic disorders of mitral, aortic and tricuspid valves	Diagnosis	ICD-10-CM
I088	Other rheumatic multiple valve diseases	Diagnosis	ICD-10-CM
I089	Rheumatic multiple valve disease, unspecified	Diagnosis	ICD-10-CM
I091	Rheumatic diseases of endocardium, valve unspecified	Diagnosis	ICD-10-CM
I0989	Other specified rheumatic heart diseases	Diagnosis	ICD-10-CM
I340	Nonrheumatic mitral (valve) insufficiency	Diagnosis	ICD-10-CM
I341	Nonrheumatic mitral (valve) prolapse	Diagnosis	ICD-10-CM
I342	Nonrheumatic mitral (valve) stenosis	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
I348	Other nonrheumatic mitral valve disorders	Diagnosis	ICD-10-CM
I349	Nonrheumatic mitral valve disorder, unspecified	Diagnosis	ICD-10-CM
I350	Nonrheumatic aortic (valve) stenosis	Diagnosis	ICD-10-CM
I351	Nonrheumatic aortic (valve) insufficiency	Diagnosis	ICD-10-CM
I352	Nonrheumatic aortic (valve) stenosis with insufficiency	Diagnosis	ICD-10-CM
I358	Other nonrheumatic aortic valve disorders	Diagnosis	ICD-10-CM
I359	Nonrheumatic aortic valve disorder, unspecified	Diagnosis	ICD-10-CM
I360	Nonrheumatic tricuspid (valve) stenosis	Diagnosis	ICD-10-CM
I361	Nonrheumatic tricuspid (valve) insufficiency	Diagnosis	ICD-10-CM
I362	Nonrheumatic tricuspid (valve) stenosis with insufficiency	Diagnosis	ICD-10-CM
I368	Other nonrheumatic tricuspid valve disorders	Diagnosis	ICD-10-CM
I369	Nonrheumatic tricuspid valve disorder, unspecified	Diagnosis	ICD-10-CM
I370	Nonrheumatic pulmonary valve stenosis	Diagnosis	ICD-10-CM
I371	Nonrheumatic pulmonary valve insufficiency	Diagnosis	ICD-10-CM
I372	Nonrheumatic pulmonary valve stenosis with insufficiency	Diagnosis	ICD-10-CM
I378	Other nonrheumatic pulmonary valve disorders	Diagnosis	ICD-10-CM
I379	Nonrheumatic pulmonary valve disorder, unspecified	Diagnosis	ICD-10-CM
I38	Endocarditis, valve unspecified	Diagnosis	ICD-10-CM
I39	Endocarditis and heart valve disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
M3211	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM

**Chronic congestive heart failure**

I5022	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5023	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5032	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5033	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM

**Chronic ischemic heart disease**

I201	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I208	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I209	Angina pectoris, unspecified	Diagnosis	ICD-10-CM
I2510	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I253	Aneurysm of heart	Diagnosis	ICD-10-CM
I2541	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I2542	Coronary artery dissection	Diagnosis	ICD-10-CM
I255	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I256	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I25700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM
I25701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I25708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
I25810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I2582	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I2583	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I2584	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I2589	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I259	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
Chronic renal disease			
B520	Plasmodium malariae malaria with nephropathy	Diagnosis	ICD-10-CM
E0821	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E0822	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E0829	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E0921	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E0922	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E0929	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
M3214	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3215	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3504	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
N020	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N021	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N022	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N023	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N024	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N025	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N026	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N027	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N028	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N029	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N030	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N031	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N032	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N033	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N034	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N035	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N036	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N037	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N038	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N039	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N040	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N041	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N042	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N043	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
N044	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N045	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N046	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N047	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N048	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N049	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N050	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N051	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N052	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N053	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N054	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N055	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N056	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N057	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N058	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N059	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N060	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N061	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N062	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N063	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N064	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N065	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N066	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N067	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N068	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N069	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N070	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N071	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N072	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N073	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N074	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N075	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N076	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N077	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N078	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N079	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N140	Analgesic nephropathy	Diagnosis	ICD-10-CM
N141	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N142	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N143	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N144	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
N150	Balkan nephropathy	Diagnosis	ICD-10-CM
N158	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N159	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N171	Acute kidney failure with acute cortical necrosis	Diagnosis	ICD-10-CM
N172	Acute kidney failure with medullary necrosis	Diagnosis	ICD-10-CM
N181	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N182	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N183	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N184	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N185	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N186	End stage renal disease	Diagnosis	ICD-10-CM
N189	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N250	Renal osteodystrophy	Diagnosis	ICD-10-CM
N251	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N2581	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N2589	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N259	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N261	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N269	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
O1210	Gestational proteinuria, unspecified trimester	Diagnosis	ICD-10-CM
O1211	Gestational proteinuria, first trimester	Diagnosis	ICD-10-CM
O1212	Gestational proteinuria, second trimester	Diagnosis	ICD-10-CM
O1213	Gestational proteinuria, third trimester	Diagnosis	ICD-10-CM
O1214	Gestational proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1215	Gestational proteinuria, complicating the puerperium	Diagnosis	ICD-10-CM
O1220	Gestational edema with proteinuria, unspecified trimester	Diagnosis	ICD-10-CM
O1221	Gestational edema with proteinuria, first trimester	Diagnosis	ICD-10-CM
O1222	Gestational edema with proteinuria, second trimester	Diagnosis	ICD-10-CM
O1223	Gestational edema with proteinuria, third trimester	Diagnosis	ICD-10-CM
O1224	Gestational edema with proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O1225	Gestational edema with proteinuria, complicating the puerperium	Diagnosis	ICD-10-CM
O26831	Pregnancy related renal disease, first trimester	Diagnosis	ICD-10-CM
O26832	Pregnancy related renal disease, second trimester	Diagnosis	ICD-10-CM
O26833	Pregnancy related renal disease, third trimester	Diagnosis	ICD-10-CM
O26839	Pregnancy related renal disease, unspecified trimester	Diagnosis	ICD-10-CM
O9089	Other complications of the puerperium, not elsewhere classified	Diagnosis	ICD-10-CM
<b>Congenital heart disease</b>			
I2783	Eisenmenger's syndrome	Diagnosis	ICD-10-CM
O99411	Diseases of the circulatory system complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99412	Diseases of the circulatory system complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99413	Diseases of the circulatory system complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99419	Diseases of the circulatory system complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O9942	Diseases of the circulatory system complicating childbirth	Diagnosis	ICD-10-CM
O9943	Diseases of the circulatory system complicating the puerperium	Diagnosis	ICD-10-CM
Q200	Common arterial trunk	Diagnosis	ICD-10-CM
Q201	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q202	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q203	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q204	Double inlet ventricle	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
Q205	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q206	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q208	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q209	Congenital malformation of cardiac chambers and connections, unspecified	Diagnosis	ICD-10-CM
Q210	Ventricular septal defect	Diagnosis	ICD-10-CM
Q211	Atrial septal defect	Diagnosis	ICD-10-CM
Q212	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q213	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q214	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q218	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q219	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q220	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q221	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q222	Congenital pulmonary valve insufficiency	Diagnosis	ICD-10-CM
Q223	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q224	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q225	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q226	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q228	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
Q229	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q230	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q231	Congenital insufficiency of aortic valve	Diagnosis	ICD-10-CM
Q232	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q233	Congenital mitral insufficiency	Diagnosis	ICD-10-CM
Q234	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q238	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q239	Congenital malformation of aortic and mitral valves, unspecified	Diagnosis	ICD-10-CM
Q240	Dextrocardia	Diagnosis	ICD-10-CM
Q241	Levocardia	Diagnosis	ICD-10-CM
Q242	Cor triatriatum	Diagnosis	ICD-10-CM
Q243	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q244	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q245	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q246	Congenital heart block	Diagnosis	ICD-10-CM
Q248	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q249	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM
Q250	Patent ductus arteriosus	Diagnosis	ICD-10-CM
Q251	Coarctation of aorta	Diagnosis	ICD-10-CM
Q2521	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q2529	Other atresia of aorta	Diagnosis	ICD-10-CM
Q253	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q2540	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q2541	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q2542	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q2543	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q2544	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q2545	Double aortic arch	Diagnosis	ICD-10-CM
Q2546	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q2547	Right aortic arch	Diagnosis	ICD-10-CM
Q2548	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q2549	Other congenital malformations of aorta	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
Q255	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q256	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q2571	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q2572	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q2579	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q258	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
Q259	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM
Q260	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q261	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q262	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q263	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q264	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q268	Other congenital malformations of great veins	Diagnosis	ICD-10-CM
Q269	Congenital malformation of great vein, unspecified	Diagnosis	ICD-10-CM

Drug abuse			
F1110	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F1111	Opioid abuse, in remission	Diagnosis	ICD-10-CM
F11120	Opioid abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11129	Opioid abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F1120	Opioid dependence, uncomplicated	Diagnosis	ICD-10-CM
F1121	Opioid dependence, in remission	Diagnosis	ICD-10-CM
F11220	Opioid dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11221	Opioid dependence with intoxication delirium	Diagnosis	ICD-10-CM
F11222	Opioid dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11229	Opioid dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F1123	Opioid dependence with withdrawal	Diagnosis	ICD-10-CM
F1124	Opioid dependence with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11250	Opioid dependence with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11251	Opioid dependence with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11259	Opioid dependence with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11281	Opioid dependence with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11288	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM
F1129	Opioid dependence with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F1190	Opioid use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1210	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F1211	Cannabis abuse, in remission	Diagnosis	ICD-10-CM
F1220	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F1221	Cannabis dependence, in remission	Diagnosis	ICD-10-CM
F12220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM
F12222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F1229	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F1290	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM



**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
F1310	Sedative, hypnotic or anxiolytic abuse, uncomplicated	Diagnosis	ICD-10-CM
F1311	Sedative, hypnotic or anxiolytic abuse, in remission	Diagnosis	ICD-10-CM
F13120	Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1320	Sedative, hypnotic or anxiolytic dependence, uncomplicated	Diagnosis	ICD-10-CM
F1321	Sedative, hypnotic or anxiolytic dependence, in remission	Diagnosis	ICD-10-CM
F13220	Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13221	Sedative, hypnotic or anxiolytic dependence with intoxication delirium	Diagnosis	ICD-10-CM
F13229	Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F13230	Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13231	Sedative, hypnotic or anxiolytic dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F13232	Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13239	Sedative, hypnotic or anxiolytic dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F1324	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13250	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13251	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13259	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F1326	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F1327	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13280	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13281	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13282	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13288	Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F1329	Sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F1390	Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1410	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F1411	Cocaine abuse, in remission	Diagnosis	ICD-10-CM
F14120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1420	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F1421	Cocaine dependence, in remission	Diagnosis	ICD-10-CM
F14220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM
F14222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F1423	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F1424	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
F14281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F1429	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F1490	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1510	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F1511	Other stimulant abuse, in remission	Diagnosis	ICD-10-CM
F15120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1520	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F1521	Other stimulant dependence, in remission	Diagnosis	ICD-10-CM
F15220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F1523	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F1524	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F1529	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F1590	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1610	Hallucinogen abuse, uncomplicated	Diagnosis	ICD-10-CM
F1611	Hallucinogen abuse, in remission	Diagnosis	ICD-10-CM
F16120	Hallucinogen abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1620	Hallucinogen dependence, uncomplicated	Diagnosis	ICD-10-CM
F1621	Hallucinogen dependence, in remission	Diagnosis	ICD-10-CM
F16220	Hallucinogen dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16221	Hallucinogen dependence with intoxication with delirium	Diagnosis	ICD-10-CM
F16229	Hallucinogen dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F1624	Hallucinogen dependence with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16250	Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16251	Hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16259	Hallucinogen dependence with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16280	Hallucinogen dependence with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16283	Hallucinogen dependence with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16288	Hallucinogen dependence with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F1629	Hallucinogen dependence with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F1690	Hallucinogen use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1810	Inhalant abuse, uncomplicated	Diagnosis	ICD-10-CM
F1811	Inhalant abuse, in remission	Diagnosis	ICD-10-CM
F18120	Inhalant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1820	Inhalant dependence, uncomplicated	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
F1821	Inhalant dependence, in remission	Diagnosis	ICD-10-CM
F18220	Inhalant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18221	Inhalant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F18229	Inhalant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F1824	Inhalant dependence with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18250	Inhalant dependence with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18251	Inhalant dependence with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18259	Inhalant dependence with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F1827	Inhalant dependence with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18280	Inhalant dependence with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18288	Inhalant dependence with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F1829	Inhalant dependence with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F1890	Inhalant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F1910	Other psychoactive substance abuse, uncomplicated	Diagnosis	ICD-10-CM
F1911	Other psychoactive substance abuse, in remission	Diagnosis	ICD-10-CM
F19120	Other psychoactive substance abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F1920	Other psychoactive substance dependence, uncomplicated	Diagnosis	ICD-10-CM
F1921	Other psychoactive substance dependence, in remission	Diagnosis	ICD-10-CM
F19220	Other psychoactive substance dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19221	Other psychoactive substance dependence with intoxication delirium	Diagnosis	ICD-10-CM
F19222	Other psychoactive substance dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19229	Other psychoactive substance dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F19230	Other psychoactive substance dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19231	Other psychoactive substance dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F19232	Other psychoactive substance dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19239	Other psychoactive substance dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F1924	Other psychoactive substance dependence with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19250	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19251	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19259	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F1926	Other psychoactive substance dependence with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F1927	Other psychoactive substance dependence with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19280	Other psychoactive substance dependence with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19281	Other psychoactive substance dependence with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19282	Other psychoactive substance dependence with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19288	Other psychoactive substance dependence with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F1929	Other psychoactive substance dependence with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F1990	Other psychoactive substance use, unspecified, uncomplicated	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
F550	Abuse of antacids	Diagnosis	ICD-10-CM
F551	Abuse of herbal or folk remedies	Diagnosis	ICD-10-CM
F552	Abuse of laxatives	Diagnosis	ICD-10-CM
F553	Abuse of steroids or hormones	Diagnosis	ICD-10-CM
F554	Abuse of vitamins	Diagnosis	ICD-10-CM
F558	Abuse of other non-psychoactive substances	Diagnosis	ICD-10-CM
O99320	Drug use complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99321	Drug use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99322	Drug use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99323	Drug use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99325	Drug use complicating the puerperium	Diagnosis	ICD-10-CM
<b>Gestational hypertension</b>			
O131	Gestational [pregnancy-induced] hypertension without significant proteinuria, first trimester	Diagnosis	ICD-10-CM
O132	Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester	Diagnosis	ICD-10-CM
O133	Gestational [pregnancy-induced] hypertension without significant proteinuria, third trimester	Diagnosis	ICD-10-CM
O134	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	Diagnosis	ICD-10-CM
O135	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating the puerperium	Diagnosis	ICD-10-CM
O139	Gestational [pregnancy-induced] hypertension without significant proteinuria, unspecified trimester	Diagnosis	ICD-10-CM
O161	Unspecified maternal hypertension, first trimester	Diagnosis	ICD-10-CM
O162	Unspecified maternal hypertension, second trimester	Diagnosis	ICD-10-CM
O163	Unspecified maternal hypertension, third trimester	Diagnosis	ICD-10-CM
<b>Human immunodeficiency virus</b>			
B20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
B24	Unspecified human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
<b>Mild or unspecified preeclampsia</b>			
O111	Pre-existing hypertension with pre-eclampsia, first trimester	Diagnosis	ICD-10-CM
O112	Pre-existing hypertension with pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O113	Pre-existing hypertension with pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O115	Pre-existing hypertension with pre-eclampsia, complicating the puerperium	Diagnosis	ICD-10-CM
O119	Pre-existing hypertension with pre-eclampsia, unspecified trimester	Diagnosis	ICD-10-CM
O1400	Mild to moderate pre-eclampsia, unspecified trimester	Diagnosis	ICD-10-CM
O1402	Mild to moderate pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1403	Mild to moderate pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1404	Mild to moderate pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O1405	Mild to moderate pre-eclampsia, complicating the puerperium	Diagnosis	ICD-10-CM
O1490	Unspecified pre-eclampsia, unspecified trimester	Diagnosis	ICD-10-CM
O1492	Unspecified pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1493	Unspecified pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O1494	Unspecified pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O1495	Unspecified pre-eclampsia, complicating the puerperium	Diagnosis	ICD-10-CM
O152	Eclampsia complicating the puerperium	Diagnosis	ICD-10-CM
<b>Multiple gestation</b>			
O30001	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30002	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30003	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30009	Twin pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30011	Twin pregnancy, monochorionic/monoamniotic, first trimester	Diagnosis	ICD-10-CM
O30012	Twin pregnancy, monochorionic/monoamniotic, second trimester	Diagnosis	ICD-10-CM
O30013	Twin pregnancy, monochorionic/monoamniotic, third trimester	Diagnosis	ICD-10-CM
O30019	Twin pregnancy, monochorionic/monoamniotic, unspecified trimester	Diagnosis	ICD-10-CM
O30031	Twin pregnancy, monochorionic/diamniotic, first trimester	Diagnosis	ICD-10-CM
O30032	Twin pregnancy, monochorionic/diamniotic, second trimester	Diagnosis	ICD-10-CM
O30033	Twin pregnancy, monochorionic/diamniotic, third trimester	Diagnosis	ICD-10-CM
O30039	Twin pregnancy, monochorionic/diamniotic, unspecified trimester	Diagnosis	ICD-10-CM
O30041	Twin pregnancy, dichorionic/diamniotic, first trimester	Diagnosis	ICD-10-CM
O30042	Twin pregnancy, dichorionic/diamniotic, second trimester	Diagnosis	ICD-10-CM
O30043	Twin pregnancy, dichorionic/diamniotic, third trimester	Diagnosis	ICD-10-CM
O30049	Twin pregnancy, dichorionic/diamniotic, unspecified trimester	Diagnosis	ICD-10-CM
O30091	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30092	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30093	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30099	Twin pregnancy, unable to determine number of placenta and number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30101	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30102	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30103	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30109	Triplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30111	Triplet pregnancy with two or more monochorionic fetuses, first trimester	Diagnosis	ICD-10-CM
O30112	Triplet pregnancy with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30113	Triplet pregnancy with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30119	Triplet pregnancy with two or more monochorionic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30121	Triplet pregnancy with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30122	Triplet pregnancy with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM
O30123	Triplet pregnancy with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30129	Triplet pregnancy with two or more monoamniotic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30191	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O30192	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30193	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30199	Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30201	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30202	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30203	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30209	Quadruplet pregnancy, unspecified number of placenta and unspecified number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30211	Quadruplet pregnancy with two or more monochorionic fetuses, first trimester	Diagnosis	ICD-10-CM
O30212	Quadruplet pregnancy with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30213	Quadruplet pregnancy with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30219	Quadruplet pregnancy with two or more monochorionic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30221	Quadruplet pregnancy with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30222	Quadruplet pregnancy with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM
O30223	Quadruplet pregnancy with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30229	Quadruplet pregnancy with two or more monoamniotic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30291	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30292	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30293	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30299	Quadruplet pregnancy, unable to determine number of placenta and number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30801	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30802	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30803	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30809	Other specified multiple gestation, unspecified number of placenta and unspecified number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O30811	Other specified multiple gestation with two or more monochorionic fetuses, first trimester	Diagnosis	ICD-10-CM
O30812	Other specified multiple gestation with two or more monochorionic fetuses, second trimester	Diagnosis	ICD-10-CM
O30813	Other specified multiple gestation with two or more monochorionic fetuses, third trimester	Diagnosis	ICD-10-CM
O30819	Other specified multiple gestation with two or more monochorionic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30821	Other specified multiple gestation with two or more monoamniotic fetuses, first trimester	Diagnosis	ICD-10-CM
O30822	Other specified multiple gestation with two or more monoamniotic fetuses, second trimester	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O30823	Other specified multiple gestation with two or more monoamniotic fetuses, third trimester	Diagnosis	ICD-10-CM
O30829	Other specified multiple gestation with two or more monoamniotic fetuses, unspecified trimester	Diagnosis	ICD-10-CM
O30891	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, first trimester	Diagnosis	ICD-10-CM
O30892	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, second trimester	Diagnosis	ICD-10-CM
O30893	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, third trimester	Diagnosis	ICD-10-CM
O30899	Other specified multiple gestation, unable to determine number of placenta and number of amniotic sacs, unspecified trimester	Diagnosis	ICD-10-CM
O3090	Multiple gestation, unspecified, unspecified trimester	Diagnosis	ICD-10-CM
O3091	Multiple gestation, unspecified, first trimester	Diagnosis	ICD-10-CM
O3092	Multiple gestation, unspecified, second trimester	Diagnosis	ICD-10-CM
O3093	Multiple gestation, unspecified, third trimester	Diagnosis	ICD-10-CM
O3110X0	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3110X1	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3110X2	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3110X3	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3110X4	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3110X5	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3110X9	Continuing pregnancy after spontaneous abortion of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3111X0	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3111X1	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3111X2	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3111X3	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3111X4	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3111X5	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3111X9	Continuing pregnancy after spontaneous abortion of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3112X0	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3112X1	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3112X2	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O3112X3	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3112X4	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3112X5	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3112X9	Continuing pregnancy after spontaneous abortion of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3113X0	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3113X1	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3113X2	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3113X3	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3113X4	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3113X5	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3113X9	Continuing pregnancy after spontaneous abortion of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O3120X0	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3120X1	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3120X2	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3120X3	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3120X4	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3120X5	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3120X9	Continuing pregnancy after intrauterine death of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3121X0	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3121X1	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3121X2	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3121X3	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM
O3121X4	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3121X5	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3121X9	Continuing pregnancy after intrauterine death of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM



**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O3122X0	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3122X1	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3122X2	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3122X3	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3122X4	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3122X5	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3122X9	Continuing pregnancy after intrauterine death of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3123X0	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3123X1	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3123X2	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3123X3	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3123X4	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3123X5	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3123X9	Continuing pregnancy after intrauterine death of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O3130X0	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3130X1	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O3130X2	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O3130X3	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O3130X4	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O3130X5	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O3130X9	Continuing pregnancy after elective fetal reduction of one fetus or more, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
O3131X0	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3131X1	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 1	Diagnosis	ICD-10-CM
O3131X2	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 2	Diagnosis	ICD-10-CM
O3131X3	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 3	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O3131X4	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 4	Diagnosis	ICD-10-CM
O3131X5	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, fetus 5	Diagnosis	ICD-10-CM
O3131X9	Continuing pregnancy after elective fetal reduction of one fetus or more, first trimester, other fetus	Diagnosis	ICD-10-CM
O3132X0	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3132X1	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 1	Diagnosis	ICD-10-CM
O3132X2	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 2	Diagnosis	ICD-10-CM
O3132X3	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 3	Diagnosis	ICD-10-CM
O3132X4	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 4	Diagnosis	ICD-10-CM
O3132X5	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, fetus 5	Diagnosis	ICD-10-CM
O3132X9	Continuing pregnancy after elective fetal reduction of one fetus or more, second trimester, other fetus	Diagnosis	ICD-10-CM
O3133X0	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O3133X1	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 1	Diagnosis	ICD-10-CM
O3133X2	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 2	Diagnosis	ICD-10-CM
O3133X3	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 3	Diagnosis	ICD-10-CM
O3133X4	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 4	Diagnosis	ICD-10-CM
O3133X5	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, fetus 5	Diagnosis	ICD-10-CM
O3133X9	Continuing pregnancy after elective fetal reduction of one fetus or more, third trimester, other fetus	Diagnosis	ICD-10-CM
O318X10	Other complications specific to multiple gestation, first trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X11	Other complications specific to multiple gestation, first trimester, fetus 1	Diagnosis	ICD-10-CM
O318X12	Other complications specific to multiple gestation, first trimester, fetus 2	Diagnosis	ICD-10-CM
O318X13	Other complications specific to multiple gestation, first trimester, fetus 3	Diagnosis	ICD-10-CM
O318X14	Other complications specific to multiple gestation, first trimester, fetus 4	Diagnosis	ICD-10-CM
O318X15	Other complications specific to multiple gestation, first trimester, fetus 5	Diagnosis	ICD-10-CM
O318X19	Other complications specific to multiple gestation, first trimester, other fetus	Diagnosis	ICD-10-CM
O318X20	Other complications specific to multiple gestation, second trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X21	Other complications specific to multiple gestation, second trimester, fetus 1	Diagnosis	ICD-10-CM
O318X22	Other complications specific to multiple gestation, second trimester, fetus 2	Diagnosis	ICD-10-CM
O318X23	Other complications specific to multiple gestation, second trimester, fetus 3	Diagnosis	ICD-10-CM
O318X24	Other complications specific to multiple gestation, second trimester, fetus 4	Diagnosis	ICD-10-CM
O318X25	Other complications specific to multiple gestation, second trimester, fetus 5	Diagnosis	ICD-10-CM
O318X29	Other complications specific to multiple gestation, second trimester, other fetus	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
O318X30	Other complications specific to multiple gestation, third trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X31	Other complications specific to multiple gestation, third trimester, fetus 1	Diagnosis	ICD-10-CM
O318X32	Other complications specific to multiple gestation, third trimester, fetus 2	Diagnosis	ICD-10-CM
O318X33	Other complications specific to multiple gestation, third trimester, fetus 3	Diagnosis	ICD-10-CM
O318X34	Other complications specific to multiple gestation, third trimester, fetus 4	Diagnosis	ICD-10-CM
O318X35	Other complications specific to multiple gestation, third trimester, fetus 5	Diagnosis	ICD-10-CM
O318X39	Other complications specific to multiple gestation, third trimester, other fetus	Diagnosis	ICD-10-CM
O318X90	Other complications specific to multiple gestation, unspecified trimester, not applicable or unspecified	Diagnosis	ICD-10-CM
O318X91	Other complications specific to multiple gestation, unspecified trimester, fetus 1	Diagnosis	ICD-10-CM
O318X92	Other complications specific to multiple gestation, unspecified trimester, fetus 2	Diagnosis	ICD-10-CM
O318X93	Other complications specific to multiple gestation, unspecified trimester, fetus 3	Diagnosis	ICD-10-CM
O318X94	Other complications specific to multiple gestation, unspecified trimester, fetus 4	Diagnosis	ICD-10-CM
O318X95	Other complications specific to multiple gestation, unspecified trimester, fetus 5	Diagnosis	ICD-10-CM
O318X99	Other complications specific to multiple gestation, unspecified trimester, other fetus	Diagnosis	ICD-10-CM
Z372	Twins, both liveborn	Diagnosis	ICD-10-CM
Z373	Twins, one liveborn and one stillborn	Diagnosis	ICD-10-CM
Z374	Twins, both stillborn	Diagnosis	ICD-10-CM
Z3750	Multiple births, unspecified, all liveborn	Diagnosis	ICD-10-CM
Z3751	Triplets, all liveborn	Diagnosis	ICD-10-CM
Z3752	Quadruplets, all liveborn	Diagnosis	ICD-10-CM
Z3753	Quintuplets, all liveborn	Diagnosis	ICD-10-CM
Z3754	Sextuplets, all liveborn	Diagnosis	ICD-10-CM
Z3759	Other multiple births, all liveborn	Diagnosis	ICD-10-CM
Z3760	Multiple births, unspecified, some liveborn	Diagnosis	ICD-10-CM
Z3761	Triplets, some liveborn	Diagnosis	ICD-10-CM
Z3762	Quadruplets, some liveborn	Diagnosis	ICD-10-CM
Z3763	Quintuplets, some liveborn	Diagnosis	ICD-10-CM
Z3764	Sextuplets, some liveborn	Diagnosis	ICD-10-CM
Z3769	Other multiple births, some liveborn	Diagnosis	ICD-10-CM
Z377	Other multiple births, all stillborn	Diagnosis	ICD-10-CM
<b>Placenta previa</b>			
O4400	Complete placenta previa NOS or without hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM
O4401	Complete placenta previa NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4402	Complete placenta previa NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4403	Complete placenta previa NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4410	Complete placenta previa with hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM
O4411	Complete placenta previa with hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4412	Complete placenta previa with hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4413	Complete placenta previa with hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4420	Partial placenta previa NOS or without hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM
O4421	Partial placenta previa NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4422	Partial placenta previa NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4423	Partial placenta previa NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4430	Partial placenta previa with hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM
O4431	Partial placenta previa with hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4432	Partial placenta previa with hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4433	Partial placenta previa with hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4440	Low lying placenta NOS or without hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM

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Code	Description	Code	
		Category	Code Type
O4441	Low lying placenta NOS or without hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4442	Low lying placenta NOS or without hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4443	Low lying placenta NOS or without hemorrhage, third trimester	Diagnosis	ICD-10-CM
O4450	Low lying placenta with hemorrhage, unspecified trimester	Diagnosis	ICD-10-CM
O4451	Low lying placenta with hemorrhage, first trimester	Diagnosis	ICD-10-CM
O4452	Low lying placenta with hemorrhage, second trimester	Diagnosis	ICD-10-CM
O4453	Low lying placenta with hemorrhage, third trimester	Diagnosis	ICD-10-CM

Pre-existing diabetes mellitus			
Code	Description	Category	Code Type
E1010	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1011	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1021	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1022	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1029	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E103211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E103412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E103512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E103513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E103519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E103521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E103522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E103523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E103529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E103531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E103532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E103533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E103539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E103541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E103542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E103543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E103549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E103551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E103552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E103553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E103559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E103591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E103592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E103593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E103599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1036	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1037X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1037X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E1037X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1037X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E1039	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1040	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1041	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1042	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1043	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1044	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1049	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1051	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1052	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1059	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E10638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1065	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1069	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E108	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E109	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1100	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E1101	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E1110	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1111	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1121	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1122	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1129	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E11319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E113211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E113511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E113512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E113513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E113519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E113521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E113522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E113523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E113529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E113531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E113532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E113533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E113539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E113541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E113542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E113543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E113549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E113551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E113552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E113553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E113559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E113591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E113592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E113593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E113599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1136	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1137X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1137X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM



**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E1137X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1137X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E1139	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1140	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E1141	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1142	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1143	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1144	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1149	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1151	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1152	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1159	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1165	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1169	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E118	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E119	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1300	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E1301	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E1310	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E1311	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E1321	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E1322	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E1329	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E133211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E133292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E133512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E133513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E133519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E133521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E133522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E133523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E133529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E133531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E133532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E133533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E133539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E133541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E133542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E133543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E133549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E133551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E133552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E133553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E133559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E133591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E133592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E133593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E133599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E1336	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E1337X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E1337X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E1337X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E1337X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E1339	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E1340	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
E1341	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E1342	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E1343	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E1344	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E1349	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E1351	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E1352	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E1359	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E1365	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E1369	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E138	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E139	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
O24011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2402	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2403	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2412	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O2413	Pre-existing type 2 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2432	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2433	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O2482	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2483	Other pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O2492	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O2493	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
<b>Pre-existing hypertension</b>			
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I110	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I119	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I120	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I129	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I130	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
I1310	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
I1311	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I132	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
I150	Renovascular hypertension	Diagnosis	ICD-10-CM
I151	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I152	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I158	Other secondary hypertension	Diagnosis	ICD-10-CM
I159	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I160	Hypertensive urgency	Diagnosis	ICD-10-CM
I161	Hypertensive emergency	Diagnosis	ICD-10-CM
I169	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM
N262	Page kidney	Diagnosis	ICD-10-CM
O10011	Pre-existing essential hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10012	Pre-existing essential hypertension complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10013	Pre-existing essential hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10019	Pre-existing essential hypertension complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1002	Pre-existing essential hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1003	Pre-existing essential hypertension complicating the puerperium	Diagnosis	ICD-10-CM
O10111	Pre-existing hypertensive heart disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10112	Pre-existing hypertensive heart disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10113	Pre-existing hypertensive heart disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10119	Pre-existing hypertensive heart disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1012	Pre-existing hypertensive heart disease complicating childbirth	Diagnosis	ICD-10-CM
O1013	Pre-existing hypertensive heart disease complicating the puerperium	Diagnosis	ICD-10-CM
O10211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1022	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1023	Pre-existing hypertensive chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O10311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1032	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O1033	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
O10411	Pre-existing secondary hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10412	Pre-existing secondary hypertension complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10413	Pre-existing secondary hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10419	Pre-existing secondary hypertension complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1042	Pre-existing secondary hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1043	Pre-existing secondary hypertension complicating the puerperium	Diagnosis	ICD-10-CM
O10911	Unspecified pre-existing hypertension complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10912	Unspecified pre-existing hypertension complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10913	Unspecified pre-existing hypertension complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10919	Unspecified pre-existing hypertension complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1092	Unspecified pre-existing hypertension complicating childbirth	Diagnosis	ICD-10-CM
O1093	Unspecified pre-existing hypertension complicating the puerperium	Diagnosis	ICD-10-CM
O111	Pre-existing hypertension with pre-eclampsia, first trimester	Diagnosis	ICD-10-CM
O112	Pre-existing hypertension with pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O113	Pre-existing hypertension with pre-eclampsia, third trimester	Diagnosis	ICD-10-CM
O114	Pre-existing hypertension with pre-eclampsia, complicating childbirth	Diagnosis	ICD-10-CM
O115	Pre-existing hypertension with pre-eclampsia, complicating the puerperium	Diagnosis	ICD-10-CM
O119	Pre-existing hypertension with pre-eclampsia, unspecified trimester	Diagnosis	ICD-10-CM
<b>Previous caesarean delivery</b>			
O34211	Maternal care for low transverse scar from previous cesarean delivery	Diagnosis	ICD-10-CM
O34212	Maternal care for vertical scar from previous cesarean delivery	Diagnosis	ICD-10-CM
O34219	Maternal care for unspecified type scar from previous cesarean delivery	Diagnosis	ICD-10-CM
<b>Pulmonary hypertension</b>			
I270	Primary pulmonary hypertension	Diagnosis	ICD-10-CM
I2720	Pulmonary hypertension, unspecified	Diagnosis	ICD-10-CM
I2721	Secondary pulmonary arterial hypertension	Diagnosis	ICD-10-CM
I2722	Pulmonary hypertension due to left heart disease	Diagnosis	ICD-10-CM
I2723	Pulmonary hypertension due to lung diseases and hypoxia	Diagnosis	ICD-10-CM
I2724	Chronic thromboembolic pulmonary hypertension	Diagnosis	ICD-10-CM
I2729	Other secondary pulmonary hypertension	Diagnosis	ICD-10-CM
I2781	Cor pulmonale (chronic)	Diagnosis	ICD-10-CM
I2789	Other specified pulmonary heart diseases	Diagnosis	ICD-10-CM
I279	Pulmonary heart disease, unspecified	Diagnosis	ICD-10-CM
<b>Severe preeclampsia or eclampsia</b>			
O1410	Severe pre-eclampsia, unspecified trimester	Diagnosis	ICD-10-CM
O1412	Severe pre-eclampsia, second trimester	Diagnosis	ICD-10-CM
O1413	Severe pre-eclampsia, third trimester	Diagnosis	ICD-10-CM

**Appendix L. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define the Bateman Obstetric Comorbidity Index**

Code	Description	Code	
		Category	Code Type
O1414	Severe pre-eclampsia complicating childbirth	Diagnosis	ICD-10-CM
O1415	Severe pre-eclampsia, complicating the puerperium	Diagnosis	ICD-10-CM
O1420	HELLP syndrome (HELLP), unspecified trimester	Diagnosis	ICD-10-CM
O1422	HELLP syndrome (HELLP), second trimester	Diagnosis	ICD-10-CM
O1423	HELLP syndrome (HELLP), third trimester	Diagnosis	ICD-10-CM
O1424	HELLP syndrome, complicating childbirth	Diagnosis	ICD-10-CM
O1425	HELLP syndrome, complicating the puerperium	Diagnosis	ICD-10-CM
O1500	Eclampsia complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O1502	Eclampsia complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O1503	Eclampsia complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O151	Eclampsia complicating labor	Diagnosis	ICD-10-CM
O152	Eclampsia complicating the puerperium	Diagnosis	ICD-10-CM
O159	Eclampsia, unspecified as to time period	Diagnosis	ICD-10-CM

**Sickle cell disease**

D560	Alpha thalassemia	Diagnosis	ICD-10-CM
D561	Beta thalassemia	Diagnosis	ICD-10-CM
D562	Delta-beta thalassemia	Diagnosis	ICD-10-CM
D563	Thalassemia minor	Diagnosis	ICD-10-CM
D565	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D568	Other thalassemias	Diagnosis	ICD-10-CM
D569	Thalassemia, unspecified	Diagnosis	ICD-10-CM
D5700	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D5701	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D5702	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D571	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D5720	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D5740	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57419	Sickle-cell thalassemia with crisis, unspecified	Diagnosis	ICD-10-CM
D5780	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM

**Systemic lupus erythematosus**

M320	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3210	Systemic lupus erythematosus, organ or system involvement unspecified	Diagnosis	ICD-10-CM
M3211	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3212	Pericarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3213	Lung involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3214	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3215	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M3219	Other organ or system involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M328	Other forms of systemic lupus erythematosus	Diagnosis	ICD-10-CM
M329	Systemic lupus erythematosus, unspecified	Diagnosis	ICD-10-CM

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
<b>Analgesics</b>	
acetaminophen	7T Gummy ES
acetaminophen	8 Hour Pain Reliever
acetaminophen	8HR Muscle Aches-Pain
acetaminophen	Acephen
acetaminophen	acetaminophen
acetaminophen	Acetaminophen Extra Strength
acetaminophen	Acetaminophen Pain Relief
acetaminophen	Aphen
acetaminophen	Arthritis Pain Relief (acetam)
acetaminophen	Arthritis Pain Reliever
acetaminophen	Athenol
acetaminophen	BetaTemp
acetaminophen	Child Fever Reducer-Pain Relvr
acetaminophen	Child Pain Rel-Fever Reducer
acetaminophen	Children's Acetaminophen
acetaminophen	Children's Aurophen Pain-Fever
acetaminophen	Children's Easy-Melts
acetaminophen	Children's Fever Reducing
acetaminophen	Children's Mapap
acetaminophen	Children's Non-Aspirin
acetaminophen	Children's Pain Relief
acetaminophen	Children's Pain Reliever
acetaminophen	Children's Pain-Fever Relief
acetaminophen	Children's Tactinal
acetaminophen	Children's Tylenol
acetaminophen	Ed-APAP
acetaminophen	Fever Reducer
acetaminophen	Feverall
acetaminophen	Infant Fever Reducer-Pain Relf
acetaminophen	Infant Pain Reliever
acetaminophen	Infant's Acetaminophen
acetaminophen	Infants' Pain and Fever
acetaminophen	Infants' Pain Relief
acetaminophen	Infant's Pain Relief
acetaminophen	Infant's Pain Reliever
acetaminophen	Infant's Tylenol
acetaminophen	Jr. Acetaminophen
acetaminophen	Jr. Str Non-Aspirin Pain
acetaminophen	Jr. Strength Pain Reliever
acetaminophen	Little Remedies Fever and Pain
acetaminophen	Mapap (acetaminophen)
acetaminophen	Mapap Arthritis Pain
acetaminophen	Mapap Extra Strength
acetaminophen	Masophen
acetaminophen	M-PAP
acetaminophen	Non-Aspirin
acetaminophen	Non-Aspirin Childrens
acetaminophen	Non-Aspirin Extra Strength
acetaminophen	Non-Aspirin Pain Relief
acetaminophen	Nortemp
acetaminophen	Ofirmev



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
acetaminophen	Pain and Fever
acetaminophen	Pain Relief (acetaminophen)
acetaminophen	Pain Relief Adult
acetaminophen	Pain Relief Extra Strength
acetaminophen	Pain Relief Regular Strength
acetaminophen	Pain Reliever (acetaminophen)
acetaminophen	Pain Reliever Extra Strength
acetaminophen	Pain Reliever Jr Strength
acetaminophen	PediaCare Fever Reducer
acetaminophen	Pharbetol
acetaminophen	Shake That Ache
acetaminophen	Silapap
acetaminophen	Tactinal
acetaminophen	Tactinal Extra Strength
acetaminophen	Tylenol
acetaminophen	Tylenol 8 Hour
acetaminophen	Tylenol Arthritis Pain
acetaminophen	Tylenol Extra Strength
acetaminophen	Tylophen
acetaminophen with codeine phosphate	acetaminophen-codeine
acetaminophen with codeine phosphate	Capital with Codeine
acetaminophen with codeine phosphate	Tylenol-Codeine #3
acetaminophen with codeine phosphate	Tylenol-Codeine #4
acetaminophen/caffeine	Excedrin Tension Headache
acetaminophen/caffeine	Tension Headache
acetaminophen/caffeine	Tension Headache Pain Reliever
acetaminophen/caffeine	Tension Headache Relief
acetaminophen/caffeine/dihydrocodeine bitartrate	acetaminophen-caff-dihydrocod
acetaminophen/caffeine/dihydrocodeine bitartrate	Dvorah
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor(acetam-caff-dihydrocod)
acetaminophen/caffeine/dihydrocodeine bitartrate	Trezix
acetaminophen/chlorpheniramine maleate	Coricidin HBP Cold and Flu
acetaminophen/dexbrompheniramine maleate	Actidogesic
acetaminophen/dexbrompheniramine maleate	Dologen
acetaminophen/dexbrompheniramine maleate	Dologen 325
acetaminophen/dexbrompheniramine maleate	Dologesic (w-dexbromphenirmn)
acetaminophen/dexbrompheniramine maleate	Dologesic-DF
acetaminophen/dexbrompheniramine maleate	G-Dologen
acetaminophen/diphenhydramine citrate	Goody's PM
acetaminophen/diphenhydramine citrate	Headache Relief PM
acetaminophen/diphenhydramine citrate	Midol PM
acetaminophen/diphenhydramine HCl	Acetadryl
acetaminophen/diphenhydramine HCl	Aceta-Gesic
acetaminophen/diphenhydramine HCl	Acetaminophen PM
acetaminophen/diphenhydramine HCl	Acetaminophen PM Extra Str
acetaminophen/diphenhydramine HCl	Allergy Severe
acetaminophen/diphenhydramine HCl	diphenhydramine-acetaminophen
acetaminophen/diphenhydramine HCl	EaZZZe The Pain
acetaminophen/diphenhydramine HCl	Headache PM
acetaminophen/diphenhydramine HCl	Mapap PM
acetaminophen/diphenhydramine HCl	Night Time Pain Medicine
acetaminophen/diphenhydramine HCl	Non-Aspirin Nighttime

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
acetaminophen/diphenhydramine HCl	Non-Aspirin Pain Relief PM
acetaminophen/diphenhydramine HCl	Non-Aspirin PM
acetaminophen/diphenhydramine HCl	Pain and Sleep
acetaminophen/diphenhydramine HCl	Pain Relief PM
acetaminophen/diphenhydramine HCl	Pain Relief PM Rapid Release
acetaminophen/diphenhydramine HCl	Pain Reliever PM
acetaminophen/diphenhydramine HCl	Pain Reliever PM Ex-Strength
acetaminophen/diphenhydramine HCl	Percogesic
acetaminophen/diphenhydramine HCl	Percogesic Extra Strength
acetaminophen/diphenhydramine HCl	Severe Allergy
acetaminophen/diphenhydramine HCl	Tylenol PM Extra Strength
acetaminophen/diphenhydramine HCl	Wal-Nadol PM
acetaminophen/pamabrom	Cramp Tabs
acetaminophen/pamabrom	Midol
acetaminophen/phenyltoloxamine citrate	Relagesic
acetaminophen/pyrilamine maleate	HistaFlex
acetaminophen/pyrilamine maleate/caffeine	Menstrual Complete
acetaminophen/pyrilamine maleate/caffeine	Menstrual Relief
acetaminophen/pyrilamine maleate/caffeine	Midol Complete
acetaminophen/pyrilamine maleate/caffeine	Midol Max St Menstrual
acetaminophen/pyrilamine maleate/pamabrom	Menstrual Relief(pamabr-pyril)
acetaminophen/pyrilamine maleate/pamabrom	Pre-Menstrual Relief
alfentanil HCl	alfentanil
almotriptan malate	almotriptan malate
almotriptan malate	Axert
aspirin	Adult Aspirin Regimen
aspirin	Adult Low Dose Aspirin
aspirin	Aspir-81
aspirin	aspirin
aspirin	Aspirin Childrens
aspirin	Aspirin Low Dose
aspirin	Aspir-Low
aspirin	Aspir-Trin
aspirin	Bayer Advanced
aspirin	Bayer Aspirin
aspirin	Bayer Chewable Aspirin
aspirin	Children's Aspirin
aspirin	Durlaza
aspirin	E.C. Prin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
aspirin	Enteric Coated Aspirin
aspirin	Extra Strength Bayer
aspirin	Lo-Dose Aspirin
aspirin	St Joseph Aspirin
aspirin	St. Joseph Aspirin
aspirin/acetaminophen/caffeine	Added Strength Headache Relief
aspirin/acetaminophen/caffeine	Excedrin Extra Strength
aspirin/acetaminophen/caffeine	Excedrin Migraine
aspirin/acetaminophen/caffeine	Extra Pain Relief
aspirin/acetaminophen/caffeine	Extraprin
aspirin/acetaminophen/caffeine	Goody's Extra Strength

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
aspirin/acetaminophen/caffeine	Headache Relief (ASA-acet-caf)
aspirin/acetaminophen/caffeine	Migraine Formula
aspirin/acetaminophen/caffeine	Migraine Relief
aspirin/acetaminophen/caffeine	Pain Relief (acetamin-asp-caf)
aspirin/acetaminophen/caffeine	Pain Reliever (acetam-aspirin)
aspirin/acetaminophen/caffeine	Pain Reliever Plus
aspirin/acetaminophen/caffeine	Pain-Off
aspirin/acetaminophen/caffeine	Vanquish
aspirin/acetaminophen/diphenhydramine citrate	Pain Relief PM (w-aspirin)
aspirin/caffeine	Anacin
aspirin/caffeine	Back and Body Pain Reliever
aspirin/caffeine	Bayer Aspirin (with caffeine)
aspirin/caffeine	Bayer Back and Body
aspirin/caffeine	BC Arthritis
aspirin/caffeine	BC Pain Relief
aspirin/calcium carbonate/magnesium/aluminum hydroxide	Bayer Plus Extra Strength
aspirin/diphenhydramine citrate	Bayer PM
aspirin/salicylamide/acetaminophen/caffeine	Pain Relief(with salicylamide)
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Extra Strength
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Original
aspirin/sodium bicarbonate/citric acid	Antacid and Pain Relief
aspirin/sodium bicarbonate/citric acid	Efferves Pain Relief Antacid
aspirin/sodium bicarbonate/citric acid	Effervescent Pain Relief
aspirin/sodium bicarbonate/citric acid	Medi-Seltzer
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
buprenorphine	buprenorphine
buprenorphine	Butrans
buprenorphine	Sublocade
buprenorphine HCl	Belbuca
buprenorphine HCl	Buprenex
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl	Probuphine
buprenorphine HCl/naloxone HCl	Bunavail
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
butalbital/acetaminophen	Allzital
butalbital/acetaminophen	Bupap
butalbital/acetaminophen	butalbital-acetaminophen
butalbital/acetaminophen	Tencon
butalbital/acetaminophen/caffeine	butalbital-acetaminophen-caff
butalbital/acetaminophen/caffeine	Esgic
butalbital/acetaminophen/caffeine	Fioricet
butalbital/acetaminophen/caffeine	Phrenilin Forte(with caffeine)
butalbital/acetaminophen/caffeine	Vanatol LQ
butalbital/acetaminophen/caffeine	Vanatol S
butalbital/acetaminophen/caffeine	Vtol LQ
butalbital/acetaminophen/caffeine	Zebutal
butalbital/acetaminophen/caffeine/codeine phosphate	butalbital-acetaminop-caf-cod
butalbital/acetaminophen/caffeine/codeine phosphate	Fioricet with Codeine
butalbital/aspirin/caffeine	butalbital-aspirin-caffeine

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
butalbital/aspirin/caffeine	Fiorinal
butorphanol tartrate	butorphanol
carisoprodol/aspirin/codeine phosphate	carisoprodol-aspirin-codeine
choline salicylate/magnesium salicylate	choline,magnesium salicylate
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
codeine sulfate	codeine sulfate
diflunisal	diflunisal
dihydroergotamine mesylate	D.H.E.45
dihydroergotamine mesylate	dihydroergotamine
dihydroergotamine mesylate	Migranal
eletriptan hydrobromide	eletriptan
eletriptan hydrobromide	Relpax
erenumab-aooe	Aimovig Autoinjector
erenumab-aooe	Aimovig Autoinjector (2 Pack)
ergotamine tartrate	Ergomar
ergotamine tartrate/caffeine	Cafergot
ergotamine tartrate/caffeine	ergotamine-caffeine
ergotamine tartrate/caffeine	Migergot
fentanyl	Duragesic
fentanyl	fentanyl
fentanyl	Subsys
fentanyl citrate	Abstral
fentanyl citrate	Actiq
fentanyl citrate	fentanyl citrate
fentanyl citrate	Fentora
fentanyl citrate	Lazanda
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/bupivacaine HCl in 0.9 % sodium chloride/PF	fentanyl (PF)-bupivacaine-NaCl
fentanyl citrate/PF	fentanyl citrate (PF)
fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	fentanyl-ropivacaine-NaCl (PF)
fremanezumab-vfrm	Ajovy Autoinjector
fremanezumab-vfrm	Ajovy Syringe
frovatriptan succinate	Frova
frovatriptan succinate	frovatriptan
GABAPENTIN	Fanatrex
gabapentin	gabapentin
gabapentin	gabapentin (bulk)
gabapentin	Gralise
gabapentin	Gralise 30-Day Starter Pack
gabapentin	Neurontin
galcanezumab-gnlm	Emgality Pen
galcanezumab-gnlm	Emgality Syringe
guaifenesin/acetaminophen	Chest Congestion
guaifenesin/phenylephrine HCl/acetaminophen	CCP Caffeine Free
guaifenesin/phenylephrine HCl/acetaminophen	Cold and Sinus Multi-Symptom
guaifenesin/phenylephrine HCl/acetaminophen	Coldonyl
guaifenesin/phenylephrine HCl/acetaminophen	Flu Relief Therapy Cold-Chest

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Generic Name	Brand Name
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Cold-Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Fast-Max Cong-HA (GG)
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Freefrom Cold-Flu-Cong
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Cng-Pain(gg)
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Pressur-Pain
guaifenesin/phenylephrine HCl/acetaminophen	Mucinex Sinus-Max Sev Congestn
guaifenesin/phenylephrine HCl/acetaminophen	Mucus Relief Cold and Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Mucus Relief SinusPressur-Pain
guaifenesin/phenylephrine HCl/acetaminophen	Mucus Rlf Severe Sinus Congest
guaifenesin/phenylephrine HCl/acetaminophen	Pressure-Pain PE Plus Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Severe Congestion Relief
guaifenesin/phenylephrine HCl/acetaminophen	Severe Sinus
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Congestion-Pain(guaif)
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Relief Pressure and Pain
guaifenesin/phenylephrine HCl/acetaminophen	Sinus Relief Severe Congestion
guaifenesin/phenylephrine HCl/acetaminophen	Sudafed PE Head Congestn-Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Sudafed PE Pressure-Pain-Mucus
guaifenesin/phenylephrine HCl/acetaminophen	Tylenol Cold Head Congest Sevr
guaifenesin/phenylephrine HCl/acetaminophen	Tylenol Sinus Severe
guaifenesin/phenylephrine HCl/acetaminophen	Wal-Phed PE Triple Relief
hydrocodone bitartrate	hydrocodone bitartrate
hydrocodone bitartrate	Hysingla ER
hydrocodone bitartrate	Zohydro ER
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin HP
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 sodium chloride, iso-osmotic/PF	hydromorphone(PF)-NaCl,iso-osm
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl/bupivacaine HCl in 0.9% sodium chloride/PF	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/PF	Dilaudid (PF)
hydromorphone HCl/PF	hydromorphone (PF)
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl
ibuprofen/acetaminophen	Advil Dual Action
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
isometheptene mucate/caffeine/acetaminophen	isomethepten-caf-acetaminophen
isometheptene mucate/caffeine/acetaminophen	Prodrin
isometheptene mucate/dichloralphenazone/acetaminophen	isometh-dichloral-acetaminophn
isometheptene mucate/dichloralphenazone/acetaminophen	Nodolor
levorphanol tartrate	levorphanol tartrate
magnesium salicylate	Backache Relief
magnesium salicylate	Backache Relief Extra Strength

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<b>Generic Name</b>	<b>Brand Name</b>
magnesium salicylate	Percogesic Backache Relief
magnesium salicylate/acetaminophen/caffeine	Back Pain-Off
magnesium salicylate/caffeine	Diurex
meperidine HCl	Demerol
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
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
methenamine/sodium salicylate	Antibacterial-Urinary Pain Rlf
methenamine/sodium salicylate	AZO Urinary Tract Defense
methenamine/sodium salicylate	Cystex Plus (methenamine-sal)
morphine sulfate	Arymo ER
morphine sulfate	Kadian
morphine sulfate	MorphaBond ER
morphine sulfate	morphine
morphine sulfate	morphine concentrate
morphine sulfate	MS Contin
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
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
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F
morphine sulfate/PF	Mitigo (PF)
morphine sulfate/PF	morphine (PF)
nalbuphine HCl	nalbuphine
naratriptan HCl	Amerge
naratriptan HCl	naratriptan
oliceridine fumarate	Olinvyk
orphenadrine citrate/aspirin/caffeine	Norgesic Forte
orphenadrine citrate/aspirin/caffeine	orphenadrine-ASA-caffeine
orphenadrine citrate/aspirin/caffeine	Orphengesic Forte
oxycodone HCl	Oxaydo
oxycodone HCl	oxycodone
oxycodone HCl	OxyContin
oxycodone HCl	Roxicodone
oxycodone HCl	RoxyBond
oxycodone HCl/acetaminophen	Endocet
oxycodone HCl/acetaminophen	Nalocet
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/acetaminophen	Percocet
oxycodone HCl/acetaminophen	Primlev
oxycodone HCl/acetaminophen	Prolate
oxycodone HCl/aspirin	oxycodone-aspirin

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Generic Name	Brand Name
oxycodone myristate	Xtampza ER
oxymorphone HCl	Opana
oxymorphone HCl	oxymorphone
pentazocine HCl/naloxone HCl	pentazocine-naloxone
pentazocine lactate	Talwin
rizatriptan benzoate	Maxalt
rizatriptan benzoate	Maxalt-MLT
rizatriptan benzoate	rizatriptan
salsalate	Disalcid
salsalate	salsalate
sufentanil citrate	Dsuvia
sufentanil citrate	sufentanil citrate
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
sumatriptan	Imitrex
sumatriptan	sumatriptan
sumatriptan	Tosymra
sumatriptan succinate	Imitrex
sumatriptan succinate	Imitrex STATdose Pen
sumatriptan succinate	Imitrex STATdose Refill
sumatriptan succinate	Onzetra Xsail
sumatriptan succinate	sumatriptan succinate
sumatriptan succinate	Sumavel DosePro
sumatriptan succinate	Zembrace Symtouch
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
sumatriptan succinate/naproxen sodium	Treximet
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
tramadol HCl	ConZip
tramadol HCl	Qdolo
tramadol HCl	tramadol
tramadol HCl	Ultram
tramadol HCl/acetaminophen	tramadol-acetaminophen
tramadol HCl/acetaminophen	Ultracet
TRAMADOL HCL/GLUCOSAMINE SULFATE	Synapryn
ziconotide acetate	Prialt
zolmitriptan	zolmitriptan
zolmitriptan	Zomig
zolmitriptan	Zomig ZMT

**Antibacterials**

amikacin sulfate	amikacin
amikacin sulfate liposomal with nebulizer accessories	Arikayce
amoxicillin	amoxicillin
amoxicillin	Moxatag
amoxicillin/potassium clavulanate	amoxicillin-pot clavulanate
amoxicillin/potassium clavulanate	Augmentin
amoxicillin/potassium clavulanate	Augmentin ES-600
amoxicillin/potassium clavulanate	Augmentin XR
ampicillin sodium	ampicillin sodium
ampicillin sodium/sulbactam sodium	ampicillin-sulbactam
ampicillin sodium/sulbactam sodium	Unasyn
ampicillin trihydrate	ampicillin

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<b>Generic Name</b>	<b>Brand Name</b>
azithromycin	azithromycin
azithromycin	Zithromax
azithromycin	Zithromax TRI-PAK
azithromycin	Zithromax Z-Pak
azithromycin	Zmax
aztreonam	Azactam
aztreonam	aztreonam
aztreonam lysine	Cayston
aztreonam/dextrose-water	Azactam in dextrose (iso-osm)
bacitracin	BACiiM
bacitracin	bacitracin
bismuth subsalicylate/metronidazole/tetracycline HCl	Helidac
cefaclor	cefaclor
cefadroxil	cefadroxil
cefazolin sodium	cefazolin
cefazolin sodium in 0.9 % sodium chloride	cefazolin in 0.9% sod chloride
cefazolin sodium/dextrose 5 % in water	cefazolin in dextrose 5 %
cefazolin sodium/dextrose, iso-osmotic	cefazolin in dextrose (iso-os)
cefazolin sodium/water for injection,sterile	cefazolin in sterile water
cefdinir	cefdinir
cefditoren pivoxil	cefditoren pivoxil
cefditoren pivoxil	Spectracef
cefepime HCl	cefepime
cefepime HCl	Maxipime
cefepime HCl in dextrose 5 % in water	cefepime in dextrose 5 %
cefepime HCl in iso-osmotic dextrose	cefepime in dextrose,iso-osm
cefiderocol sulfate tosylate	Fetroja
cefixime	cefixime
cefixime	Suprax
cefotaxime sodium	cefotaxime
cefotaxime sodium	Claforan
cefotetan disodium	Cefotan
cefotetan disodium	cefotetan
cefotetan disodium in iso-osmotic dextrose	cefotetan in dextrose, iso-osm
cefoxitin sodium	cefoxitin
cefoxitin sodium/dextrose, iso-osmotic	cefoxitin in dextrose, iso-osm
cefpodoxime proxetil	cefpodoxime
cefprozil	cefprozil
ceftaroline fosamil acetate	Teflaro
ceftazidime	ceftazidime
ceftazidime	Fortaz
ceftazidime	Tazicef
ceftazidime in dextrose 5% and water	ceftazidime in D5W
ceftazidime sodium in iso-osmotic dextrose	Fortaz in dextrose 5 %
ceftazidime/avibactam sodium	Avycaz
ceftibuten	Cedax
ceftibuten	ceftibuten
ceftolozane sulfate/tazobactam sodium	Zerbaxa
ceftriaxone sodium	ceftriaxone
ceftriaxone sodium in iso-osmotic dextrose	ceftriaxone in dextrose,iso-os
cefuroxime axetil	Ceftin
cefuroxime axetil	cefuroxime axetil



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<b>Generic Name</b>	<b>Brand Name</b>
cefuroxime sodium	cefuroxime sodium
cefuroxime sodium	Zinacef
cefuroxime sodium/water for injection,sterile	Zinacef in Sterile Water
cephalexin	cephalexin
cephalexin	Daxbia
cephalexin	Keflex
chloramphenicol sod succinate	chloramphenicol sod succinate
ciprofloxacin	Cipro
ciprofloxacin	ciprofloxacin
ciprofloxacin HCl	Cipro
ciprofloxacin HCl	ciprofloxacin HCl
ciprofloxacin lactate	ciprofloxacin lactate
ciprofloxacin lactate/dextrose 5 % in water	Cipro in D5W
ciprofloxacin lactate/dextrose 5 % in water	ciprofloxacin in 5 % dextrose
ciprofloxacin/ciprofloxacin HCl	Cipro XR
ciprofloxacin/ciprofloxacin HCl	ciprofloxacin (mixture)
clarithromycin	clarithromycin
clindamycin HCl	Cleocin HCl
clindamycin HCl	clindamycin HCl
clindamycin palmitate HCl	Cleocin Pediatric
clindamycin palmitate HCl	Clindamycin Pediatric
clindamycin phosphate	Cleocin
clindamycin phosphate	Clin Single Use
clindamycin phosphate	clindamycin phosphate
clindamycin phosphate in 0.9 % sodium chloride	clindamycin in 0.9 % sod chlor
clindamycin phosphate/dextrose 5 % in water	Cleocin in 5 % dextrose
clindamycin phosphate/dextrose 5 % in water	clindamycin in 5 % dextrose
colistin (as colistimethate sodium)	colistin (colistimethate Na)
colistin (as colistimethate sodium)	Coly-Mycin M Parenteral
colloidal bismuth subcitrate/metronidazole/tetracycline HCl	Pylera
dalbavancin HCl	Dalvance
daptomycin	Cubicin
daptomycin	Cubicin RF
daptomycin	daptomycin
delafloxacin meglumine	Baxdela
demeclocycline HCl	demeclocycline
dicloxacillin sodium	dicloxacillin
doripenem	doripenem
doxycycline calcium	Vibramycin
doxycycline hyclate	Acticlate
doxycycline hyclate	Doryx
doxycycline hyclate	Doryx MPC
doxycycline hyclate	Doxy-100
doxycycline hyclate	doxycycline hyclate
doxycycline hyclate	Morgidox
doxycycline hyclate	Soloxide
doxycycline hyclate	Targadox
doxycycline hyclate	Vibramycin
doxycycline monohydrate	Avidoxy
doxycycline monohydrate	doxycycline monohydrate
doxycycline monohydrate	Mondoxyne NL
doxycycline monohydrate	Monodox

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<b>Generic Name</b>	<b>Brand Name</b>
doxycycline monohydrate	Okebo
doxycycline monohydrate	Oracea
doxycycline monohydrate	Vibramycin
eravacycline di-hydrochloride	Xerava
ertapenem sodium	ertapenem
ertapenem sodium	Invanz
erythromycin base	Ery-Tab
erythromycin base	erythromycin
erythromycin base	PCE
erythromycin ethylsuccinate	E.E.S. 400
erythromycin ethylsuccinate	E.E.S. Granules
erythromycin ethylsuccinate	EryPed 200
erythromycin ethylsuccinate	EryPed 400
erythromycin ethylsuccinate	erythromycin ethylsuccinate
erythromycin lactobionate	Erythrocin
erythromycin stearate	Erythrocin (as stearate)
erythromycin stearate	erythromycin stearate
fidaxomicin	Dificid
fosfomicin tromethamine	fosfomicin tromethamine
fosfomicin tromethamine	Monurol
gemifloxacin mesylate	Factive
gentamicin sulfate	gentamicin
gentamicin sulfate in sodium chloride, iso-osmotic	gentamicin in NaCl (iso-osm)
gentamicin sulfate/PF	gentamicin sulfate (ped) (PF)
gentamicin sulfate/PF	gentamicin sulfate (PF)
imipenem/cilastatin sodium	imipenem-cilastatin
imipenem/cilastatin sodium	Primaxin IV
imipenem/cilastatin sodium/relebactam	Recarbrio
lansoprazole/amoxicillin trihydrate/clarithromycin	amoxicil-clarithromy-lansopraz
lansoprazole/amoxicillin trihydrate/clarithromycin	Prevpac
lefamulin acetate	Xenleta
levofloxacin	Levaquin
levofloxacin	levofloxacin
levofloxacin/dextrose 5 % in water	levofloxacin in D5W
lincomycin HCl	Lincocin
lincomycin HCl	lincomycin
linezolid	linezolid
linezolid	Zyvox
linezolid in 0.9 % sodium chloride	linezolid-0.9% sodium chloride
linezolid in dextrose 5 % in water	linezolid in dextrose 5%
linezolid in dextrose 5 % in water	Zyvox
meropenem	meropenem
meropenem	Merrem
meropenem in 0.9 % sodium chloride	meropenem-0.9% sodium chloride
meropenem/vaborbactam	Vabomere
methenamine hippurate	Hiprex
methenamine hippurate	methenamine hippurate
methenamine mandelate	methenamine mandelate
methenamine mandelate/sodium phosphate,monobasic	Uroqid-Acid No.2
methenamine/methylene blue/benzoic acid/salicylat/hyoscyamin	Hyophen
methenamine/methylene blue/salicylate/sodium phos/hyoscyamin	URIMAR-T
methenamine/methylene blue/salicylate/sodium phos/hyoscyamin	Ustell

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<b>Generic Name</b>	<b>Brand Name</b>
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Phosphasal
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	UR N-C
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Urelle
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Uretron D-S
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Uribel
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Urin DS
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Uro-458
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	UroAv-B
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Uro-MP
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Utira-C
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Vilamit MB
methenamine/methylene blue/sod phos/p.salicylate/hyoscyamine	Vilelev MB
methenamine/sod phosph,monobasic/methylene blue/hyoscyamine	methen-sod phos-meth blue-hyos
methenamine/sod phosph,monobasic/methylene blue/hyoscyamine	Urogesic-Blue
methenamine/sod phosph,monobasic/methylene blue/hyoscyamine	Uryl
methenamine/sod phosph,monobasic/methylene blue/hyoscyamine	UTA
methenamine/sodium salicylate	Antibacterial-Urinary Pain Rlf
methenamine/sodium salicylate	AZO Urinary Tract Defense
methenamine/sodium salicylate	Cystex Plus (methenamine-sal)
metronidazole	Flagyl
metronidazole	metronidazole
metronidazole in sodium chloride	Metro I.V.
metronidazole in sodium chloride	metronidazole in NaCl (iso-os)
minocycline HCl	CoreMino
minocycline HCl	Minocin
minocycline HCl	minocycline
minocycline HCl	Minolira ER
minocycline HCl	Solodyn
minocycline HCl	Ximino
moxifloxacin HCl	Avelox
moxifloxacin HCl	moxifloxacin
moxifloxacin HCl in sodium acetate and sulfate,water,iso-osm	moxifloxacin-sod.ace,sul-water
moxifloxacin HCl in sodium chloride, iso-osmotic	Avelox in NaCl (iso-osmotic)
moxifloxacin HCl in sodium chloride, iso-osmotic	moxifloxacin-sod.chloride(iso)
nafcillin in dextrose, iso-osmotic	nafcillin in dextrose iso-osm
nafcillin sodium	nafcillin
neomycin sulfate	neomycin
nitrofurantoin	Furadantin
nitrofurantoin	nitrofurantoin
nitrofurantoin macrocrystal	Macrodantin
nitrofurantoin macrocrystal	nitrofurantoin macrocrystal
nitrofurantoin monohydrate/macrocrystals	Macrobid
nitrofurantoin monohydrate/macrocrystals	nitrofurantoin monohyd/m-cryst
ofloxacin	ofloxacin
omadacycline tosylate	Nuzyra
omadacycline tosylate	Nuzyra (7 Day with Load Dose)
omadacycline tosylate	Nuzyra (7 Day)
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak
oritavancin diphosphate	Orbactiv
oxacillin sodium	oxacillin
oxacillin sodium in iso-osmotic dextrose	oxacillin in dextrose(iso-osm)

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<b>Generic Name</b>	<b>Brand Name</b>
penicillin G benzathine	Bicillin L-A
penicillin G benzathine/penicillin G procaine	Bicillin C-R
penicillin G potassium	penicillin G potassium
penicillin G potassium	Pfizerpen-G
penicillin G potassium/dextrose-water	penicillin G pot in dextrose
penicillin G procaine	penicillin G procaine
penicillin G sodium	penicillin G sodium
penicillin V potassium	penicillin V potassium
piperacillin and tazobactam in dextrose, iso-osmotic	Zosyn in dextrose (iso-osm)
piperacillin sodium/tazobactam sodium	piperacillin-tazobactam
piperacillin sodium/tazobactam sodium	Zosyn
plazomicin sulfate	Zemdri
polymyxin B sulfate	polymyxin B sulfate
pretomanid	pretomanid
quinupristin/dalfopristin	Synercid
rifaximin	Xifaxan
sarecycline HCl	Seysara
secnidazole	Solosec
streptomycin sulfate	streptomycin
sulfadiazine	sulfadiazine
sulfamethoxazole/trimethoprim	Bactrim
sulfamethoxazole/trimethoprim	Bactrim DS
sulfamethoxazole/trimethoprim	sulfamethoxazole-trimethoprim
sulfamethoxazole/trimethoprim	Sulfatrim
tedizolid phosphate	Sivextro
telavancin HCl	Vibativ
tetracycline HCl	tetracycline
tigecycline	tigecycline
tigecycline	Tygacil
tobramycin	Bethkis
tobramycin	Tobi Podhaler
tobramycin	tobramycin
tobramycin in 0.225 % sodium chloride	Tobi
tobramycin in 0.225 % sodium chloride	tobramycin in 0.225 % NaCl
tobramycin sulfate	tobramycin sulfate
tobramycin sulfate/sodium chloride	tobramycin in 0.9 % NaCl
tobramycin/nebulizer	Kitabis Pak
tobramycin/nebulizer	tobramycin with nebulizer
trimethoprim	Primsol
trimethoprim	trimethoprim
trimethoprim	Trimplex
vancomycin HCl	Firvanq
vancomycin HCl	Vancocin
vancomycin HCl	vancomycin
vancomycin HCl in sterile water	vancomycin HCl in water
vancomycin HCl in water for injection (PEG-400, NADA)	vancomycin-water inject (PEG)
vancomycin in 0.9 % sodium chloride	vancomycin in 0.9 % sodium chl
vancomycin in 5 % dextrose in water	vancomycin in dextrose 5 %

**Anticoagulants/platelet inhibitors**

abciximab	Reopro
alteplase	Activase

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
alteplase	Cathflo Activase
antithrombin III, human recombinant	ATryn
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
argatroban	argatroban
argatroban in 0.9 % sodium chloride	argatroban in 0.9 % sod chlor
argatroban in sodium chloride, iso-osmotic	argatroban in NaCL (iso-os)
aspirin	Adult Aspirin Regimen
aspirin	Adult Low Dose Aspirin
aspirin	Aspir-81
aspirin	aspirin
aspirin	Aspirin Childrens
aspirin	Aspirin Low Dose
aspirin	Aspir-Low
aspirin	Aspir-Trin
aspirin	Bayer Advanced
aspirin	Bayer Aspirin
aspirin	Bayer Chewable Aspirin
aspirin	Children's Aspirin
aspirin	Durlaza
aspirin	E.C. Prin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
aspirin	Enteric Coated Aspirin
aspirin	Extra Strength Bayer
aspirin	Lo-Dose Aspirin
aspirin	St Joseph Aspirin
aspirin	St. Joseph Aspirin
aspirin/acetaminophen/caffeine	Added Strength Headache Relief
aspirin/acetaminophen/caffeine	Excedrin Extra Strength
aspirin/acetaminophen/caffeine	Excedrin Migraine
aspirin/acetaminophen/caffeine	Extra Pain Relief
aspirin/acetaminophen/caffeine	Extraprin
aspirin/acetaminophen/caffeine	Goody's Extra Strength
aspirin/acetaminophen/caffeine	Headache Relief (ASA-acet-caf)
aspirin/acetaminophen/caffeine	Migraine Formula
aspirin/acetaminophen/caffeine	Migraine Relief
aspirin/acetaminophen/caffeine	Pain Relief (acetamin-asp-caf)
aspirin/acetaminophen/caffeine	Pain Reliever (acetam-aspirin)
aspirin/acetaminophen/caffeine	Pain Reliever Plus
aspirin/acetaminophen/caffeine	Pain-Off
aspirin/acetaminophen/caffeine	Vanquish
aspirin/acetaminophen/diphenhydramine citrate	Pain Relief PM (w-aspirin)
aspirin/caffeine	Anacin
aspirin/caffeine	Back and Body Pain Reliever
aspirin/caffeine	Bayer Aspirin (with caffeine)
aspirin/caffeine	Bayer Back and Body
aspirin/caffeine	BC Arthritis
aspirin/caffeine	BC Pain Relief
aspirin/calcium carbonate	Women's Aspirin with Calcium
aspirin/calcium carbonate/magnesium	aspirin,buffd-calcium carb-mag
aspirin/calcium carbonate/magnesium	Buffered Aspirin

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
aspirin/calcium carbonate/magnesium	Bufferin
aspirin/calcium carbonate/magnesium	Tri-Buffered Aspirin
aspirin/calcium carbonate/magnesium/aluminum hydroxide	Bayer Plus Extra Strength
aspirin/diphenhydramine citrate	Bayer PM
aspirin/dipyridamole	Aggrenox
aspirin/dipyridamole	aspirin-dipyridamole
aspirin/omeprazole	aspirin-omeprazole
aspirin/omeprazole	Yosprala
aspirin/salicylamide/acetaminophen/caffeine	Pain Relief(with salicylamide)
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Extra Strength
aspirin/sodium bicarbonate/citric acid	Alka-Seltzer Original
aspirin/sodium bicarbonate/citric acid	Antacid and Pain Relief
aspirin/sodium bicarbonate/citric acid	Efferves Pain Relief Antacid
aspirin/sodium bicarbonate/citric acid	Effervescent Pain Relief
aspirin/sodium bicarbonate/citric acid	Medi-Seltzer
betrixaban maleate	Bevyxxa
bivalirudin	Angiomax
bivalirudin	bivalirudin
bivalirudin in 0.9 % sodium chloride	bivalirudin-0.9 % sodium chlor
cangrelor tetrasodium	Kengreal
caplacizumab-yhdp	Cablivi
cilostazol	cilostazol
clopidogrel bisulfate	clopidogrel
clopidogrel bisulfate	Plavix
dabigatran etexilate mesylate	Pradaxa
dalteparin sodium,porcine	Fragmin
defibrotide sodium	Defitelio
desirudin	Iprivask
dipyridamole	dipyridamole
edoxaban tosylate	Savaysa
enoxaparin sodium	enoxaparin
enoxaparin sodium	Lovenox
epoprostenol sodium	epoprostenol
epoprostenol sodium	Veletri
epoprostenol sodium (glycine)	epoprostenol (glycine)
epoprostenol sodium (glycine)	Flolan
eptifibatide	eptifibatide
eptifibatide	Integrilin
fondaparinux sodium	Arixtra
fondaparinux sodium	fondaparinux
heparin sodium,porcine	heparin (porcine)
heparin sodium,porcine	heparin lock flush (porcine)
heparin sodium,porcine in 0.45 % sodium chloride	heparin(porcine) in 0.45% NaCl
heparin sodium,porcine in 0.45 % sodium chloride/PF	heparin (porc)-0.45% NaCl (PF)
heparin sodium,porcine in 0.9 % sodium chloride	heparin (porcine) in 0.9% NaCl
heparin sodium,porcine in 0.9 % sodium chloride	heparin flush(porcine)-0.9NaCl
heparin sodium,porcine IN 0.9 % sodium chloride/PF	heparin (porcine) in NaCl (PF)
heparin sodium,porcine/dextrose 5 % in water	heparin (porcine) in 5 % dex
heparin sodium,porcine/PF	Hep Flush-10 (PF)
heparin sodium,porcine/PF	Heparin LockFlush(Porcine)(PF)
heparin sodium,porcine/PF	heparin, porcine (PF)
iloprost tromethamine	Ventavis

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
prasugrel HCl	Effient
prasugrel HCl	prasugrel
protein C, human	Ceptrotin (Blue Bar)
protein C, human	Ceptrotin (Green Bar)
reteplase	Retavase
rivaroxaban	Xarelto
rivaroxaban	Xarelto DVT-PE Treat 30d Start
selexipag	Upravi
tenecteplase	TNKase
ticagrelor	Brilinta
ticlopidine HCl	ticlopidine
tirofiban HCl monohydrate	Aggrastat Concentrate
tirofiban HCl monohydrate in 0.9 % sodium chloride	Aggrastat in sodium chloride
treprostinil	Tyvaso
treprostinil diolamine	Orenitram
treprostinil sodium	Remodulin
treprostinil sodium	treprostinil sodium
treprostinil/nebulizer accessories	Tyvaso Refill Kit
treprostinil/nebulizer and accessories	Tyvaso Institutional Start Kit
treprostinil/nebulizer and accessories	Tyvaso Starter Kit
vorapaxar sulfate	Zontivity
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	warfarin

**Antihypertensives**

acebutolol HCl	acebutolol
aliskiren hemifumarate	aliskiren
aliskiren hemifumarate	Tekturna
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
amiloride HCl	amiloride
amiloride HCl/hydrochlorothiazide	amiloride-hydrochlorothiazide
amlodipine benzoate	Katerzia
amlodipine besylate	amlodipine
amlodipine besylate	Norvasc
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
amlodipine besylate/atorvastatin calcium	Caduet
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/celecoxib	Consensi
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
atenolol	atenolol
atenolol	Tenormin
atenolol/chlorthalidone	atenolol-chlorthalidone
atenolol/chlorthalidone	Tenoretic 100
atenolol/chlorthalidone	Tenoretic 50
azilsartan medoxomil	Edarbi

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
azilsartan medoxomil/chlorthalidone	Edarbyclor
benazepril HCl	benazepril
benazepril HCl	Lotensin
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
benazepril HCl/hydrochlorothiazide	Lotensin HCT
betaxolol HCl	betaxolol
bisoprolol fumarate	bisoprolol fumarate
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	Ziac
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	carvedilol
carvedilol	Coreg
carvedilol phosphate	carvedilol phosphate
carvedilol phosphate	Coreg CR
chlorothiazide	chlorothiazide
chlorothiazide	Diuril
chlorothiazide sodium	chlorothiazide sodium
chlorothiazide sodium	Diuril IV
chlorthalidone	chlorthalidone
clevidipine butyrate	Cleviprex
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Catapres
clonidine HCl	clonidine HCl
clonidine HCl	Kapvay
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem CD
diltiazem HCl	Cardizem LA
diltiazem HCl	Cartia XT
diltiazem HCl	diltiazem HCl
diltiazem HCl	DILT-XR
diltiazem HCl	Matzim LA
diltiazem HCl	Taztia XT
diltiazem HCl	Tiadylt ER
diltiazem HCl	Tiazac
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
diltiazem HCl/dextrose 5 % in water	diltiazem in dextrose 5 %
doxazosin mesylate	Cardura
doxazosin mesylate	Cardura XL
doxazosin mesylate	doxazosin
enalapril maleate	enalapril maleate
enalapril maleate	Epaned
enalapril maleate	Vasotec
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
enalapril maleate/hydrochlorothiazide	Vaseretic
enalaprilat dihydrate	enalaprilat
eplerenone	eplerenone
eplerenone	Inspra
eprosartan mesylate	eprosartan
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	ethacrynate sodium
ethacrynate sodium	Sodium Edecrin
ethacrynic acid	Edecrin
ethacrynic acid	ethacrynic acid
felodipine	felodipine
fosinopril sodium	fosinopril
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
furosemide	furosemide
furosemide	Lasix
furosemide in 0.9 % sodium chloride	furosemide in 0.9 % NaCl
furosemide/dextrose 5 % in water	furosemide in dextrose 5 %
guanfacine HCl	guanfacine
guanfacine HCl	Intuniv ER
hydralazine HCl	hydralazine
hydrochlorothiazide	hydrochlorothiazide
hydrochlorothiazide	Microzide
indapamide	indapamide
irbesartan	Avapro
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
isosorbide dinitrate/hydralazine HCl	BiDil
isoxsuprine HCl	isoxsuprine
isradipine	isradipine
labetalol HCl	labetalol
labetalol HCl in dextrose, iso-osmotic	labetalol in dextrose,iso-osm
labetalol HCl in sodium chloride, iso-osmotic	labetalol in NaCl (iso-osmot)
labetalol in dextrose 5 % in water	labetalol in dextrose 5 %
lisinopril	lisinopril
lisinopril	Prinivil
lisinopril	Qbrelis
lisinopril	Zestril
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
lisinopril/hydrochlorothiazide	Zestoretic
losartan potassium	Cozaar
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
macitentan	Opsumit
mecamylamine HCl	Vecamyl
methylothiazide	methylothiazide
methyl dopa	methyl dopa

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
methyldopate HCl	methyldopate
metolazone	metolazone
metoprolol succinate	Kaspargo Sprinkle
metoprolol succinate	metoprolol succinate
metoprolol succinate	Toprol XL
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
metoprolol tartrate	Lopressor
metoprolol tartrate	metoprolol tartrate
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
metyrosine	Demser
metyrosine	metyrosine
minoxidil	minoxidil
moexipril HCl	moexipril
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	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
nifedipine	Adalat CC
nifedipine	Afeditab CR
nifedipine	nifedipine
nifedipine	Procardia
nifedipine	Procardia XL
nimodipine	nimodipine
nimodipine	Nymalize
nisoldipine	nisoldipine
nisoldipine	Sular
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	olmesartan-amlodipin-hcthiazid
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
papaverine HCl	papaverine
perindopril arginine/amlodipine besylate	Prestalia
perindopril erbumine	perindopril erbumine
phenoxybenzamine HCl	Dibenzyline
phenoxybenzamine HCl	phenoxybenzamine
phentolamine mesylate	phentolamine

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
pindolol	pindolol
prazosin HCl	Minipress
prazosin HCl	prazosin
propranolol HCl	Hemangeol
propranolol HCl	Inderal LA
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
sacubitril/valsartan	Entresto
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
telmisartan	Micardis
telmisartan	telmisartan
telmisartan/amlodipine besylate	telmisartan-amlodipine
telmisartan/amlodipine besylate	Twynsta
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
terazosin HCl	terazosin
timolol maleate	timolol maleate
tolvaptan	Samsca
tolvaptan	tolvaptan
toremide	Demadex
toremide	toremide
trandolapril	trandolapril
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil
treprostinil/nebulizer accessories	Tyvaso Refill Kit
treprostinil/nebulizer and accessories	Tyvaso Institutional Start Kit
treprostinil/nebulizer and accessories	Tyvaso Starter Kit
triamterene	Dyrenium
triamterene	triamterene
triamterene/hydrochlorothiazide	Dyazide
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
valsartan	Diovan
valsartan	valsartan
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
verapamil HCl	Calan
verapamil HCl	Calan SR
verapamil HCl	verapamil

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Generic Name	Brand Name
verapamil HCl	Verelan
verapamil HCl	Verelan PM
Anti-inflammatories	
amlodipine besylate/celecoxib	Consensi
antiarthritic combination no.2	glucosamine-chondroitin
auranofin	Ridaura
celecoxib	Celebrex
celecoxib	celecoxib
celecoxib/capsaicin/menthol	CapXib
celecoxib/capsaicin/methyl salicylate/menthol	NuDroxiPAK
celecoxib/lidocaine/menthol	LidoXib
chondroitin sulfate A sodium	OptiFlex-C
diclofenac potassium	Cambia
diclofenac potassium	Cataflam
diclofenac potassium	diclofenac potassium
diclofenac potassium	Zipsor
diclofenac sodium	diclofenac sodium
diclofenac sodium	Voltaren-XR
diclofenac sodium/misoprostol	Arthrotec 50
diclofenac sodium/misoprostol	Arthrotec 75
diclofenac sodium/misoprostol	diclofenac-misoprostol
diclofenac submicronized	diclofenac submicronized
diclofenac submicronized	Zorvolex
etodolac	etodolac
etodolac	Lodine
fenoprofen calcium	fenoprofen
fenoprofen calcium	Fenortho
fenoprofen calcium	Nalfon
fenoprofen calcium	ProFeno
flurbiprofen	flurbiprofen
glucosamine dipot chl/chondroitin sul A Na/Boswell/turmeric	InvigoFlex AMPM
glucosamine HCl	glucosamine HCl
glucosamine HCl/cholecalciferol (vit D3)/hyaluronic acid	glucosamine-D3-hyaluronic acid
glucosamine HCl/chondro sulfate A/cartilage/collagen type II	Glucosamine-Chondroitin-UC II
glucosamine HCl/chondroit/msm/sod borate/hyaluronic sodium	Glucosamine-Chondr (MSM-hyal)
glucosamine HCl/chondroitin sul A Na/ascorbic acid/manganese	Cosamin DS (with manganese)
glucosamine HCl/chondroitin sulf A/vitamin C/manganese/boron	glucosam-chondr-vit C-Mn-boron
glucosamine HCl/chondroitin sulfate A	Endur-Flex
glucosamine HCl/chondroitin sulfate A	glucosamine-chondroitin
glucosamine HCl/chondroitin sulfate A sodium	Cidaflex
glucosamine HCl/chondroitin sulfate A sodium	glucosamine-chondroitin
glucosamine HCl/chondroitin sulfate A sodium	Osteo Bi-Flex
glucosamine HCl/chondroitin sulfate A sodium/herbal no.270	Cosamin ASU (with AKBA)
glucosamine HCl/chondroitin sulfate A/ascorbic acid/mang	Glucosamine-Chondroitin Complx
glucosamine HCl/chondroitin-msm complex no.6/manganese sulf	glucosam-chondr msm6-manganese
glucosamine HCl/D3/boswellia serrata	Glucosamine Daily Complex
glucosamine HCl/D3/boswellia serrata	glucosamine-D3-Boswellia serr
glucosamine HCl/D3/boswellia serrata	Osteo Bi-Flex (5-Loxin)
glucosamine HCl/herbal complex no.270	Cosamin Verde
glucosamine HCl/hyaluronic acid	glucosamine HCl-hyaluronic
glucosamine HCl/mam/chondroitin su A/boswell/hyaluronic acid	gluc-msm-chon-bos-hyal

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Generic Name	Brand Name
glucosamine HCl/methylsulfonylmethane	Glucosamine Msm
glucosamine HCl/methylsulfonylmethane	glucosamine-methylsulfonylmeth
glucosamine HCl/methylsulfonylmethane/Boswellia/herbal 182	Cosamin Avoca (with Boswellia)
glucosamine HCl/methylsulfonylmethane/chondroitin sulfate A	glucosamine HCl-msm-chondroitn
glucosamine HCl/methylsulfonylmethane/chondroitin sulfate A	TripleFlex
glucosamine HCl/methylsulfonylmethane/herbal complex no.182	Cosamin Avoca
glucosamine HCl/methylsulfonylmethane/hyaluronic acid	glucosamine-msm-hyaluron acid
glucosamine HCl/msm/chondroitin sul A Na/vitamin D3	glucosam-msm-chondroit-vit D3
glucosamine HCl/msm/chondroitin sulfate A/hyaluronic acid	glucosamine-chondroitin
glucosamine HCl-chondroitin sul sod-herb 149-hyaluronic acid	Glucos Chond Cplx Advanced
glucosamine su dipot chl/chondroitin sul sod/vit C/manganese	glucosam su dip-chondroit-C-Mn
glucosamine su dipot chl/chondroitin sul sod/vit C/manganese	glucosamine-chondroitin
glucosamine su dipot Cl/chondroitin/collagen hydr/hyaluronc	glucosam-chond su-collag-hy ac
glucosamine sulf/chondroit/msm/D3/vit C/folic acid/herbal287	Algesis
glucosamine sulf/methylsulfonylmethane/C/manganese/herbal 21	Glucosamine-MSM Complex
glucosamine sulfate	Cidatrine
glucosamine sulfate	Dona
glucosamine sulfate	Genicin
glucosamine sulfate	Glucosamine
glucosamine sulfate	glucosamine sulfate
glucosamine sulfate	InvigoFlex D
glucosamine sulfate	OptiFlex-G
glucosamine sulfate	Synovacin
glucosamine sulfate (dipotassium chloride)	Glucosamine Relief
glucosamine sulfate (dipotassium chloride)	glucosamine sulfate 2KCl
glucosamine sulfate dipot chl/msm/chondroitin/vit C/manganes	Glucosamine Chondroitin
glucosamine sulfate dipot/methylsulfonylmethane/chondroitin	glucosamine 2KCl-MSM-chondroit
glucosamine sulfate dipotas/chondroitin sul A sod/vit C/mang	Glucosamine-Chondroitin Complx
glucosamine sulfate dipotassium chlor/Boswellia serrata ext	InvigoFlex GS
glucosamine sulfate dipotassium chlor/chondroitin sulfate A	glucosamine su 2KCl-chondroit
glucosamine sulfate dipotassium chlor/chondroitin sulfate A	Glucosamine Sulf-Chondroitin
glucosamine sulfate dipotassium chlor/chondroitin sulfate A	Glucosamine-Chondroitin 3X Str
glucosamine sulfate dipotassium chlor/chondroitin sulfate A	Glucosamine-Chondroitin DS
glucosamine sulfate sodium Cl/chondroitin sulfate A sodium	Optiflex Complete
glucosamine sulfate/chondroitin sulfate A/ascorbic acid/mang	Glucosamine Chondroitin MaxStr
glucosamine sulfate/chondroitin sulfate A/ascorbic acid/mang	Glucosamine-Chondroitin Complx
glucosamine sulfate/chondroitin sulfate A/ascorbic acid/mang	Glucosamine-Chondroitin Max St
glucosamine sulfate/chondroitin sulfate A/ascorbic acid/mang	glucosamine-chondroit-vit C-Mn
glucosamine sulfate/chondroitin sulfate/dietary supp comb.25	Trepadone (with bromelain)
glucosamine sulfate/chondroitin sulfate/methylsulfonylmethan	Cartivisc
glucosamine sulfate/chondroitin sulfate/methylsulfonylmethan	Condrolite
glucosamine sulfate/chondroitin sulfate/methylsulfonylmethan	glucosamine sul-chondroitn-msm
glucosamine sulfate/chondroitin sulfate/methylsulfonylmethan	Medi-Flexx
glucosamine sulfate/methylsulfonylmethane	glucosamine sulfate-msm
glucosamine sulfate/methylsulfonylmethane/magnesium/vit C	Glucosamine Complex-MSM
glucosamine sulfate/msm/chondroitin sulfateA/vit C/manganese	Flexi Joint
glucosamine sulfate/omega-3 fatty acids/vitamin E	Glucosamine-Fish Oil
glucosamine/chondr-collagen complex/vit D3/vit C/manganese	Glucosamine-Chondr-D3 (C-mang)
glucosamine/chondr-msm combo no.1/vit C/manganese/sod borate	Glucosam-Chond-MSM(with boron)
glucosamine/chondr-msm combo no.1/vit C/manganese/sod borate	glucosam-chond-msm1-C-mang-bor
glucosamine/chondr-msm combo no.1/vit C/manganese/sod borate	Glucosamine-Chond-MSM Complex
glucosamine/chondr-msm1/D3/C/mangan/Boswellia serr/sod borat	Glucosam-Chondr-MSM with vit D

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
glucosamine/chondr-msm1/D3/C/mangan/Boswellia serr/sod borat	Glucosamine-Chondroitin Complx
glucosamine/chondroit sul A/collagen,hydrolyz./hyaluronic ac	glucosam-chon-collag-hyalur ac
glucosamine/chondroitin sulfA/C/D3/B6/folic/B12/Zn ox/copper	Glucoten
glucosamine/chondroitin sulfate A	Cosamin DS
glucosamine/chondroitin sulfate A	glucosamine-chondroitin
glucosamine/chondroitin/hyaluronic acid/calcium fructoborate	Move Free Joint Health
glucosamine/chondroitin/msm/D3/hyaluronic acid/cal borate	Move Free Plus MSM-Vit D3
glucosamine/chondroitin/msm/hyaluronic ac/calc fructoborate	Move Free Plus MSM
glucosamine/chondroitin/om-3/dha/epa/fish oil/plant stanol	Glucosamine Chondroitin PLUS
glucosamine/chondroitin-msm no.7/vit C/manganese/boron citr	Glucosamine-Chondr (boswellia)
glucosamine/chondroitin-msm no2/vit C/vit D3/manganese/boron	Glucosam-Chondr-MSM with vit D
glucosamine/chondroit-msm no.1/C/manganese/boswellia serrata	glucosam-chon-msm1-C-mang-bosw
glucosamine/chondroit-msm no.1/C/manganese/boswellia serrata	Glucosamine-Chondroitin 3X
glucosamine/chondroit-msm no.1/C/manganese/boswellia serrata	Glucosamine-Chondroitin Complx
glucosamine/chondroit-msm no.1/C/manganese/boswellia serrata	Glucosamine-Chondroitin DS
glucosamine/chondroit-msm no.1/C/manganese/boswellia serrata	Osteo Bi-Flex Triple Strength
glucosamine/methylsulf/vit C/folic ac/manganese/diet 29	Azalgia
glucosamine/methylsulfonylmet/chondroitin/calcium/herbal 115	Duraflex
glucosamine/msm/chondro su A/vitamin D3/Boswellia serrata	glucosamine-msm-chondr-D3-Bosw
glucosamine/msm/chondroitin sA Na/herbal 149/hyaluronic acid	glucosam-msm-chond-hrb149-hyal
glucosamine/msm/chondroitin sA Na/herbal 149/hyaluronic acid	Glucos-Chond-MSM (with antiox)
glucosamine/msm/collagen typ II/vit C/manganese/herbal no.21	Glucosamine-MSM Complex
glucosamine/msm/collagenII/hyaluronic acid/antiarthritic no3	Arthri-Flex
glucosamine/msm/vit C/boron/manganese/evening primrose oil	Joint Support Complex
hydrocodone/ibuprofen	hydrocodone-ibuprofen
hydrocodone/ibuprofen	Ibudone
ibuprofen	Addaprin
ibuprofen	Advil
ibuprofen	Advil Liqui-Gel
ibuprofen	Advil Migraine
ibuprofen	Caldolor
ibuprofen	IBU
ibuprofen	IBU-200
ibuprofen	ibuprofen
ibuprofen	Ibuprofen IB
ibuprofen	Ibuprofen Jr Strength
ibuprofen	I-Prin
ibuprofen	Motrin IB
ibuprofen	Provil
ibuprofen	Wal-Profen
ibuprofen/acetaminophen	Advil Dual Action
ibuprofen/diphenhydramine citrate	Advil PM
ibuprofen/diphenhydramine citrate	Motrin PM
ibuprofen/diphenhydramine HCl	Advil PM Liqui-Gels
ibuprofen/famotidine	Duexis
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
indomethacin	Indocin
indomethacin	indomethacin
indomethacin, submicronized	indomethacin submicronized
indomethacin, submicronized	Tivorbex
ketoprofen	ketoprofen
ketorolac tromethamine	ketorolac

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
ketorolac tromethamine	ReadySharp ketorolac
meclofenamate sodium	meclofenamate
mefenamic acid	mefenamic acid
meloxicam	Anjeso
meloxicam	meloxicam
meloxicam	Mobic
meloxicam	Qmiiz ODT
meloxicam, submicronized	meloxicam submicronized
meloxicam, submicronized	Vivlodex
methylsulfonylmethane	methylsulfonylmethane
methylsulfonylmethane	MSM
methylsulfonylmethane/hydrolyzed collagen/co-Q10/herbal 226	Beauty and Skin Therapy
nabumetone	nabumetone
nabumetone	Relafen
nabumetone	Relafen DS
naproxen sodium	Aleve
naproxen sodium	All Day Pain Relief
naproxen sodium	All Day Relief
naproxen sodium	Anaprox DS
naproxen sodium	Flanax (naproxen)
naproxen sodium	Mediproxen
naproxen sodium	Midol (naproxen)
naproxen sodium	Naprelan CR
naproxen sodium	naproxen sodium
naproxen sodium	Wal-Proxen
naproxen sodium/diphenhydramine HCl	Aleve PM
naproxen sodium/diphenhydramine HCl	Naproxen PM
naproxen/esomeprazole magnesium	naproxen-esomeprazole
naproxen/esomeprazole magnesium	Vimovo
oxaprozin	Daypro
oxaprozin	oxaprozin
penicillamine	Cuprimine
penicillamine	D-Penamamine
penicillamine	penicillamine
piroxicam	Feldene
piroxicam	piroxicam
sulindac	sulindac
tolmetin sodium	tolmetin
TRAMADOL HCL/GLUCOSAMINE SULFATE	Synapryn

**Antimycobacterials**

aminosalicylic acid	Paser
bedaquiline fumarate	Sirturo
capreomycin sulfate	Capastat
cycloserine	cycloserine
dapsone	dapsone
ethambutol HCl	ethambutol
ethambutol HCl	Myambutol
ethionamide	Trecator
isoniazid	isoniazid
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
pretomanid	pretomanid

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
pyrazinamide	pyrazinamide
rifabutin	Mycobutin
rifabutin	rifabutin
rifampin	Rifadin
rifampin	rifampin
rifampin/isoniazid	Rifamate
rifampin/isoniazid/pyrazinamide	Rifater
rifapentine	Priftin

**Antimycotics**

amphotericin B	amphotericin B
amphotericin B lipid complex	Abelcet
amphotericin B liposome	AmBisome
anidulafungin	Eraxis(Water Diluent)
caspofungin acetate	Cancidas
caspofungin acetate	caspofungin
clotrimazole	clotrimazole
fluconazole	Diflucan
fluconazole	fluconazole
fluconazole in dextrose, iso-osmotic	fluconazole in dextrose(iso-o)
fluconazole in sodium chloride, iso-osmotic	fluconazole in NaCl (iso-osm)
flucytosine	Ancobon
flucytosine	flucytosine
griseofulvin ultramicrosize	griseofulvin ultramicrosize
griseofulvin ultramicrosize	Gris-PEG (ultramicrosize)
griseofulvin, microsize	griseofulvin microsize
isavuconazonium sulfate	Cresemba
itraconazole	itraconazole
itraconazole	Onmel
itraconazole	Sporanox
itraconazole	Sporanox Pulsepak
itraconazole	Tolsura
ketoconazole	ketoconazole
micafungin sodium	micafungin
micafungin sodium	Mycamine
nystatin	nystatin
NYSTATIN/HYDROCORTISONE/DIPHENHYDRAMINE HCL	FIRST-Duke's
NYSTATIN/LIDOCAINE HCL/DIPHENHYDRAMINE HCL	First-BXN
NYSTATIN/TETRACYCLINE HCL/HYDROCORTISONE/DIPHENHYDRAMINE HCL	FIRST-Mary's Mouthwash
posaconazole	Noxafil
posaconazole	posaconazole
terbinafine HCl	Lamisil
terbinafine HCl	terbinafine HCl
voriconazole	Vfend
voriconazole	Vfend IV
voriconazole	voriconazole

**Antivirals**

abacavir sulfate	abacavir
abacavir sulfate	Ziagen
abacavir sulfate/dolutegravir sodium/lamivudine	Triumeq
abacavir sulfate/lamivudine	abacavir-lamivudine



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
abacavir sulfate/lamivudine	Epzicom
abacavir sulfate/lamivudine/zidovudine	abacavir-lamivudine-zidovudine
abacavir sulfate/lamivudine/zidovudine	Trizivir
acyclovir	acyclovir
acyclovir	Sitavig
acyclovir	Zovirax
acyclovir sodium	acyclovir sodium
acyclovir sodium	Zovirax (as sodium)
acyclovir sodium/dextrose 5 % in water	acyclovir sod in dextrose 5 %
adefovir dipivoxil	adefovir
adefovir dipivoxil	Hepsera
amantadine HCl	amantadine HCl
amantadine HCl	Gocovri
amantadine HCl	Osmolex ER
amprenavir/vitamin E	Agenerase
amprenavir/vitamin E/propylene glycol	Agenerase
atazanavir sulfate	atazanavir
atazanavir sulfate	Reyataz
atazanavir sulfate/cobicistat	Evotaz
baloxavir marboxil	Xofluza
bictegravir sodium/emtricitabine/tenofovir alafenamide fumarate	Biktarvy
boceprevir	Victrelis
cidofovir	cidofovir
cidofovir	Vistide
cobicistat	Tybost
daclatasvir dihydrochloride	Daklinza
darunavir eth/cobicistat/emtricitabine/tenofovir alafenamide	Symtuza
darunavir ethanolate	Prezista
darunavir ethanolate/cobicistat	Prezcobix
delavirdine mesylate	Rescriptor
didanosine	didanosine
didanosine	Videx 2 gram Pediatric
didanosine	Videx 4 gram Pediatric
didanosine	Videx EC
didanosine/calcium carbonate/magnesium	Videx
didanosine/calcium carbonate/magnesium	Videx Buffered
didanosine/sodium citrate	Videx
dolutegravir sodium	Tivicay
dolutegravir sodium/lamivudine	Dovato
dolutegravir sodium/rilpivirine HCl	Juluca
doravirine	Pifeltro
doravirine/lamivudine/tenofovir disoproxil fumarate	Delstrigo
efavirenz	efavirenz
efavirenz	Sustiva
efavirenz/emtricitabine/tenofovir disoproxil fumarate	Atripla
efavirenz/lamivudine/tenofovir disoproxil fumarate	Symfi
efavirenz/lamivudine/tenofovir disoproxil fumarate	Symfi Lo
elbasvir/grazoprevir	Zepatier
elvitegravir	Vitekta
elvitegravir/cobicistat/emtricitabine/tenofovir alafenamide	Genvoya
elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil fumarate	Stribild
emtricitabine	Emtriva

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
emtricitabine/rilpivirine HCl/tenofovir alafenamide fumarate	Odefsey
emtricitabine/rilpivirine HCl/tenofovir disoproxil fumarate	Complera
emtricitabine/tenofovir alafenamide fumarate	Descovy
emtricitabine/tenofovir disoproxil fumarate	Truvada
enfuvirtide	Fuzeon
entecavir	Baraclude
entecavir	entecavir
etravirine	Intelence
famciclovir	famciclovir
famciclovir	Famvir
fosamprenavir calcium	fosamprenavir
fosamprenavir calcium	Lexiva
foscarnet sodium	foscarnet
foscarnet sodium	Foscavir
ganciclovir	Cytovene
ganciclovir	ganciclovir
ganciclovir sodium	Cytovene
ganciclovir sodium	ganciclovir sodium
glecaprevir/pibrentasvir	Mavyret
ibalizumab-uiyk	Trogarzo
indinavir sulfate	Crixivan
interferon alfa-2b,recomb.	Intron A
interferon alfacon-1	Infergen
interferon beta-1a	Avonex
interferon beta-1a/albumin human	Avonex (with albumin)
interferon beta-1a/albumin human	Rebif (with albumin)
interferon beta-1a/albumin human	Rebif Rebidose
interferon beta-1a/albumin human	Rebif Titration Pack
interferon beta-1b	Betaseron
interferon beta-1b	Extavia
interferon gamma-1b,recomb.	Actimmune
lamivudine	Epivir
lamivudine	Epivir HBV
lamivudine	lamivudine
lamivudine/tenofovir disoproxil fumarate	Cimduo
lamivudine/tenofovir disoproxil fumarate	Temixys
lamivudine/zidovudine	Combivir
lamivudine/zidovudine	lamivudine-zidovudine
ledipasvir/sofosbuvir	Harvoni
ledipasvir/sofosbuvir	ledipasvir-sofosbuvir
letermovir	Prevymis
lopinavir/ritonavir	Kaletra
lopinavir/ritonavir	lopinavir-ritonavir
maraviroc	Selzentry
nelfinavir mesylate	Viracept
nevirapine	nevirapine
nevirapine	Viramune
nevirapine	Viramune XR
NEXAVIR	
nitazoxanide	Alinia
ombitasvir/paritaprevir/ritonavir	Technivie
ombitasvir/paritaprevir/ritonavir/dasabuvir sodium	Viekira Pak

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
ombitasvir/paritaprevir/ritonavir/dasabuvir sodium	Viekira XR
oseltamivir phosphate	oseltamivir
oseltamivir phosphate	Tamiflu
peginterferon alfa-2a	Pegasys
peginterferon alfa-2a	Pegasys Convenience Pack
peginterferon alfa-2a	Pegasys ProClick
peginterferon alfa-2b	PegIntron
peginterferon alfa-2b	PegIntron Redipen
peginterferon alfa-2b	Sylatron
peginterferon beta-1a	Plegridy
peramivir/PF	Rapivab (PF)
raltegravir potassium	Isentress
raltegravir potassium	Isentress HD
ribavirin	Copegus
ribavirin	Moderiba
ribavirin	Moderiba Dose Pack
ribavirin	Rebetol
ribavirin	Ribasphere
ribavirin	Ribasphere RibaPak
ribavirin	RIBATAB
ribavirin	RIBATAB Dose Pack
ribavirin	ribavirin
ribavirin	Virazole
rilpivirine HCl	Edurant
rimantadine HCl	Flumadine
rimantadine HCl	rimantadine
rimantadine HCl/dietary supplement,misc comb14	Rimantalist
ritonavir	Norvir
ritonavir	Norvir Soft Gelatin
ritonavir	ritonavir
saquinavir	Fortovase
saquinavir mesylate	Invirase
simeprevir sodium	Olysio
Sitavig	
sofosbuvir	Sovaldi
sofosbuvir/velpatasvir	Epclusa
sofosbuvir/velpatasvir	sofosbuvir-velpatasvir
sofosbuvir/velpatasvir/voxilaprevir	Vosevi
stavudine	stavudine
stavudine	Zerit
telaprevir	Incivek
telbivudine	Tyzeka
tenofovir alafenamide	Vemlidy
tenofovir disoproxil fumarate	tenofovir disoproxil fumarate
tenofovir disoproxil fumarate	Viread
tipranavir	Aptivus
tipranavir/vitamin E TPGS	Aptivus (with vitamin E)
trifluridine/tipiracil HCl	Lonsurf
valacyclovir HCl	valacyclovir
valacyclovir HCl	Valtrex
valganciclovir HCl	Valcyte
valganciclovir HCl	valganciclovir

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
zalcitabine	Hivid
zanamivir	Relenza Diskhaler
ZIAGEN	
zidovudine	Retrovir
zidovudine	zidovudine
<b>Corticosteroids</b>	
beclomethasone dipropionate	Qvar
beclomethasone dipropionate	Qvar RediHaler
betamethasone acetate and sodium phos in sterile water/PF	betameth ac,sod phos(PF)-water
betamethasone acetate and sodium phosph/norflurane/HFC 245fa	Betaloan SUIK
betamethasone acetate and sodium phosph/norflurane/HFC 245fa	Pod-Care 100CG
betamethasone acetate/betamethasone sodium phosphate	Beta-1
betamethasone acetate/betamethasone sodium phosphate	betamethasone acet,sod phos
betamethasone acetate/betamethasone sodium phosphate	BSP-0820
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
betamethasone acetate/betamethasone sodium phosphate	Pod-Care 100C
betamethasone acetate/betamethasone sodium phosphate	ReadySharp Betamethasone
betamethasone acetate/betamethasone sodium phosphate/water	betamethasone ace,sod phos-wtr
betamethasone sodium phosph in sterile water for injection	betamethasone sod phosph-water
budesonide	budesonide
budesonide	Entocort EC
budesonide	Ortikos
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	Uceris
budesonide/formoterol fumarate	budesonide-formoterol
budesonide/formoterol fumarate	Symbicort
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
bupivacaine HCl/dexamethasone sodium phos in sterile water	bupivacaine-dexameth in water
ciclesonide	Alvesco
cortisone acetate	cortisone
deflazacort	Emflaza
dexamethasone	Decadron
dexamethasone	Dexabliss
dexamethasone	dexamethasone
dexamethasone	Dexamethasone Intensol
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dxevo
dexamethasone	Hemady
dexamethasone	HiDex
dexamethasone	LoCort
dexamethasone	TaperDex
dexamethasone	ZCort
dexamethasone	ZoDex
dexamethasone	ZonaCort
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	Dexonto

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
dexamethasone sodium phosphate	ReadySharp dexamethasone
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
dexamethasone sodium phosphate/PF	Active Injection Kit D (PF)
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate/PF	DoubleDex (PF)
dexamethasone sodium phosphate/PF	MAS Care-Pak (PF)
dexamethasone/PF/norflurane/pentafluoropropane (HFC 245fa)	DMT SUIK
flunisolide	Aerospan
fluticasone furoate	Arnuity Ellipta
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	ArmonAir RespiClick
fluticasone propionate	Flovent Diskus
fluticasone propionate	Flovent HFA
fluticasone propionate/salmeterol xinafoate	Advair Diskus
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
hydrocortisone	Alkindi Sprinkle
hydrocortisone	Cortef
hydrocortisone	hydrocortisone
hydrocortisone sod succinate	A-Hydrocort
hydrocortisone sod succinate	Solu-Cortef
hydrocortisone sodium succinate/PF	Solu-Cortef Act-O-Vial (PF)
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80
methylprednisolone acetate	ReadySharp Methylprednisolone
methylprednisolone 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 acetate/norflurane/HFC 245fa	Medroloan II SUIK
methylprednisolone acetate/norflurane/HFC 245fa	Medroloan SUIK
methylprednisolone acetate/norflurane/HFC 245fa	P-Care D40G
methylprednisolone acetate/norflurane/HFC 245fa	P-Care D80G
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate/formoterol fumarate	Dulera
prednisolone	Millipred
prednisolone	Millipred DP

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
prednisolone	prednisolone
prednisolone sodium phosphate	Millipred
prednisolone sodium phosphate	Orapred ODT
prednisolone sodium phosphate	Pediapred
prednisolone sodium phosphate	prednisolone sodium phosphate
prednisolone sodium phosphate	Veripred 20
prednisone	prednisone
prednisone	Prednisone Intensol
prednisone	Rayos
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Kenalog-40
triamcinolone acetonide	Kenalog-80
triamcinolone acetonide	P-Care K40
triamcinolone acetonide	P-Care K80
triamcinolone acetonide	Pod-Care 100K
triamcinolone acetonide	Pro-C-Dure 5
triamcinolone acetonide	Pro-C-Dure 6
triamcinolone acetonide	ReadySharp Triamcinolone
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide	Zilretta
triamcinolone acetonide in 0.9 % sodium chloride	triamcinolone acetone-0.9% NaCl
triamcinolone acetonide/0.9% sodium chloride/PF	triamcinol ac (PF) in 0.9%NaCl
triamcinolone acetonide/bupivacaine/in 0.9% sodium chloride	triamcinol ace-bupiv-0.9% NaCl
triamcinolone acetonide/lidocaine HCl	Lidocilone 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 hexacetonide	Aristospan Intra-Articular
triamcinolone hexacetonide	Aristospan Intralesional
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	P-Care K40G
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	P-Care K80G
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Pod-Care 100KG
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Triloan II SUIK
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Triloan SUIK

**Diabetes medications**

acarbose	acarbose
acarbose	Precose
albiglutide	Tanzeum
alogliptin benzoate	alogliptin
alogliptin benzoate	Nesina
alogliptin benzoate/metformin HCl	alogliptin-metformin
alogliptin benzoate/metformin HCl	Kazano
alogliptin benzoate/pioglitazone HCl	alogliptin-pioglitazone
alogliptin benzoate/pioglitazone HCl	Oseni
bromocriptine mesylate	Cycloset
canagliflozin	Invokana
canagliflozin/metformin HCl	Invokamet
canagliflozin/metformin HCl	Invokamet XR
chlorpropamide	chlorpropamide
dapagliflozin propanediol	Farxiga
dapagliflozin propanediol/metformin HCl	Xigduo XR
dapagliflozin propanediol/saxagliptin HCl	Qtern

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
diluent,insulin aspart combination no.1	Diluting Medium for Novolog
dulaglutide	Trulicity
empagliflozin	Jardiance
empagliflozin/linagliptin	Glyxambi
empagliflozin/linagliptin/metformin HCl	Trijardy XR
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	glipizide
glipizide	Glucotrol
glipizide	Glucotrol XL
glipizide/metformin HCl	glipizide-metformin
glyburide	glyburide
glyburide,micronized	glyburide micronized
glyburide,micronized	Glynase
glyburide/metformin HCl	Glucovance
glyburide/metformin HCl	glyburide-metformin
insulin aspart	insulin aspart U-100
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 Penfill U-100 Insulin
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin aspart protamine human/insulin aspart	insulin asp prt-insulin aspart
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 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	Semglee Pen U-100 Insulin
insulin glargine,human recombinant analog	Semglee 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

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
insulin lispro	Humalog Junior KwikPen U-100
insulin lispro	Humalog KwikPen Insulin
insulin lispro	Humalog U-100 Insulin
insulin lispro	insulin lispro
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insuln U-100
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)Insulin
insulin lispro protamine and insulin lispro	insulin lispro protamin-lispro
insulin lispro-aabc	Lyumjev KwikPen U-100 Insulin
insulin lispro-aabc	Lyumjev KwikPen U-200 Insulin
insulin lispro-aabc	Lyumjev U-100 Insulin
insulin NPH human isophane	Humulin N NPH Insulin KwikPen
insulin NPH human isophane	Humulin N NPH U-100 Insulin
insulin NPH human isophane	Novolin N Flexpen
insulin NPH human isophane	Novolin N NPH U-100 Insulin
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 U-100 Insulin
insulin NPH human isophane/insulin regular, human	Novolin 70-30 FlexPen U-100
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 Flexpen
insulin regular, human	Novolin R Regular U-100 Insuln
insulin regular, human in 0.9 % sodium chloride	Myxredlin
linagliptin	Tradjenta
linagliptin/metformin HCl	Jentadueto
linagliptin/metformin HCl	Jentadueto 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	metformin
metformin HCl	Riomet
metformin HCl	Riomet ER
miglitol	Glyset
miglitol	miglitol
nateglinide	nateglinide
nateglinide	Starlix
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	SymLinPen 120



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
pramlintide acetate	SymlinPen 60
repaglinide	Prandin
repaglinide	repaglinide
repaglinide/metformin HCl	repaglinide-metformin
rosiglitazone maleate	Avandia
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
tolazamide	tolazamide
tolbutamide	tolbutamide

**Immune serum globulins**

antivenin,Crotalidae (equine)	Anavip
antivenin,crotalidae Fab(ovine)	CroFab
antivenin,Latrodectus mactans	antivenin Latrodectus mactans
antivenin,Micrurus fulvius	antivenin, Micrurus fulvius
bezlotoxumab	Zinplava
botulism antitoxin heptavalent A,B,C,D,E,F,G(equine)/maltose	botulism antitoxin heptavalent
centruroides (scorpion) polyvalent antivenom	Anascorp
cytomegalovirus immune globulin (human)	CytoGam
hepatitis B immune globulin	HyperHEP B S/D
hepatitis B immune globulin	Hyperhep B S-D Neonatal
hepatitis B immune globulin	Nabi-HB
hepatitis B immune globulin/maltose	HepaGam B
immune globulin,gamm(IgG)/glycine/glucose/IgA 0 to 50 mcg/mL	Gammagard S-D (IgA < 1 mcg/mL)
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	Bivigam
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	Cuvitru
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	Gammagard Liquid
immune globulin,gamm(IgG)/glycine/IgA greater than 50 mcg/mL	HyQvia IG Component
immune globulin,gamm(IgG)/maltose/IgA greater than 50 mcg/mL	Octagam
immune globulin,gamm(IgG)/sorbitol/glycin/IgA 0 to 50 mcg/mL	Gammaplex (with sorbitol)
immune globulin,gamm(IgG)/sucrose/IgA greater than 50 mcg/mL	Carimune NF Nanofiltered
immune globulin,gamma (IgG)/glycine/IgA 0 to 50 mcg/mL	Gammaplex
immune globulin,gamma (IgG)/proline/IgA 0 to 50 mcg/mL	Hizentra
immune globulin,gamma (IgG)/proline/IgA 0 to 50 mcg/mL	Privigen
immune globulin,gamma (IgG)/sorbitol/IgA 0 to 50 mcg/mL	Flebogamma DIF
immune globulin,gamma (IgG)-klhw human	Xembify
immune globulin,gamma (IgG)-slra human	Asceniv
immune globulin,gamma(IgG) human/hyaluronidase, human recomb	HyQvia
immune globulin,gamma(IgG)/glycine	Gamastan
immune globulin,gamma(IgG)/glycine	GamaSTAN S/D
immune globulin,gamma(IgG)/glycine/IgA average 46 mcg/mL	Gammaked
immune globulin,gamma(IgG)/glycine/IgA average 46 mcg/mL	Gamunex-C
immune globulin,gamma(IgG)-hipp human/maltose	Cutaquig
immune globulin,gamma(IgG)-ifas human/glycine	Panzyga
palivizumab	Synagis
rabies immune globulin/PF	HyperRAB (PF)

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
rabies immune globulin/PF	HyperRAB S/D (PF)
rabies immune globulin/PF	Imogam Rabies-HT (PF)
rabies immune globulin/PF	Kedrab (PF)
Rho(D) immune globulin	HyperRHO S/D
Rho(D) immune globulin	MICRhoGAM Ultra-Filtered PLUS
Rho(D) immune globulin	RhoGAM Ultra-Filtered PLUS
Rho(D) immune globulin	Rhophylac
Rho(D) immune globulin/maltose	WinRho SDF
tetanus immune globulin/PF	HyperTET S/D (PF)
varicella-zoster immune globulin (human)	Varizig
varicella-zoster immune globulin/maltose	Varizig

**Immunostimulants**

aldesleukin	Proleukin
BCG live	Tice BCG
BCG vaccine, live/PF	BCG vaccine, live (PF)
dupilumab	Dupixent Pen
dupilumab	Dupixent Syringe
elapegademase-lvlr	Revcovi
filgrastim	Neupogen
filgrastim-aafi	Nivestym
filgrastim-sndz	Zarxio
glatiramer acetate	Copaxone
glatiramer acetate	glatiramer
glatiramer acetate	Glatopa
interferon alfa-2b,recomb.	Intron A
interferon alfa-n3	Alferon N
interferon beta-1a	Avonex
interferon beta-1a/albumin human	Avonex (with albumin)
interferon beta-1a/albumin human	Rebif (with albumin)
interferon beta-1a/albumin human	Rebif Rebidose
interferon beta-1a/albumin human	Rebif Titration Pack
interferon beta-1b	Betaseron
interferon beta-1b	Extavia
interferon gamma-1b,recomb.	Actimmune
pegademase bovine	Adagen
pegfilgrastim	Neulasta
pegfilgrastim	Neulasta Onpro
pegfilgrastim-apgf	Nyvepria
pegfilgrastim-bmez	Ziextenzo
pegfilgrastim-cbqv	Udenyca
pegfilgrastim-jmdb	Fulphila
peginterferon alfa-2a	Pegasys
peginterferon alfa-2a	Pegasys ProClick
peginterferon alfa-2b	PegIntron
peginterferon alfa-2b	Sylatron
peginterferon beta-1a	Plegridy
plerixafor	Mozobil
sargramostim	Leukine
sipuleucel-T/lactated ringers solution	Provenge
tbo-filgrastim	Granix

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
<b>Immunosuppressants</b>	
abatacept	Orencia
abatacept	Orencia ClickJect
abatacept/maltose	Orencia (with maltose)
adalimumab	Humira
adalimumab	Humira Pediatric Crohns Start
adalimumab	Humira Pen
adalimumab	Humira Pen Crohns-UC-HS Start
adalimumab	Humira Pen Psor-Uveits-Adol HS
adalimumab	Humira(CF)
adalimumab	Humira(CF) Pedi Crohns Starter
adalimumab	Humira(CF) Pen
adalimumab	Humira(CF) Pen Crohns-UC-HS
adalimumab	Humira(CF) Pen Psor-Uv-Adol HS
alemtuzumab	Campath
alemtuzumab	Lemtrada
anakinra	Kineret
anti-thymocyte globulin,rabbit	Thymoglobulin
apremilast	Otezla
apremilast	Otezla Starter
azathioprine	Azasan
azathioprine	azathioprine
azathioprine	Imuran
azathioprine sodium	azathioprine sodium
baricitinib	Olumiant
basiliximab	Simulect
belatacept	Nulojix
belimumab	Benlysta
brodalumab	Siliq
canakinumab/PF	Ilaris (PF)
certolizumab pegol	Cimzia
certolizumab pegol	Cimzia Powder for Reconst
certolizumab pegol	Cimzia Starter Kit
cyclosporine	cyclosporine
cyclosporine	Sandimmune
cyclosporine, modified	cyclosporine modified
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
daclizumab	Zinbryta
dimethyl fumarate	dimethyl fumarate
dimethyl fumarate	Tecfidera
eculizumab	Soliris
emapalumab-lzsg	Gamifant
etanercept	Enbrel
etanercept	Enbrel Mini
etanercept	Enbrel SureClick
fingolimod HCl	Gilenya
golimumab	Simponi
golimumab	Simponi ARIA
guselkumab	Tremfya
infliximab	Remicade
infliximab-abda	Renflexis

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
infliximab-axxq	Avsola
infliximab-dyyb	Inflectra
interferon beta-1a/albumin human	Avonex (with albumin)
interferon beta-1a/albumin human	Rebif (with albumin)
interferon beta-1a/albumin human	Rebif Rebidose
interferon beta-1a/albumin human	Rebif Titration Pack
ixekizumab	Taltz Autoinjector
ixekizumab	Taltz Autoinjector (2 Pack)
ixekizumab	Taltz Autoinjector (3 Pack)
ixekizumab	Taltz Syringe
ixekizumab	Taltz Syringe (2 Pack)
ixekizumab	Taltz Syringe (3 Pack)
leflunomide	Arava
leflunomide	leflunomide
lenalidomide	Revlimid
methotrexate/PF	Otrexup (PF)
methotrexate/PF	Rasuvo (PF)
methotrexate/PF	RediTrex (PF)
mycophenolate mofetil	CellCept
mycophenolate mofetil	mycophenolate mofetil
mycophenolate mofetil HCl	CellCept Intravenous
mycophenolate mofetil HCl	mycophenolate mofetil (HCl)
mycophenolate sodium	mycophenolate sodium
mycophenolate sodium	Myfortic
natalizumab	Tysabri
ocrelizumab	Ocrevus
ozanimod hydrochloride	Zeposia
ozanimod hydrochloride	Zeposia Starter Kit
ozanimod hydrochloride	Zeposia Starter Pack
pirfenidone	Esbriet
pomalidomide	Pomalyst
ravulizumab-cwvz	Ultomiris
rilonacept	Arcalyst
risankizumab-rzaa	Skyrizi
sarilumab	Kevzara
secukinumab	Cosentyx
secukinumab	Cosentyx (2 Syringes)
secukinumab	Cosentyx Pen
secukinumab	Cosentyx Pen (2 Pens)
siltuximab	Sylvant
siponimod	Mayzent
siponimod	Mayzent Starter Pack
sirolimus	Rapamune
sirolimus	sirolimus
tacrolimus	Astagraf XL
tacrolimus	Envarsus XR
tacrolimus	Prograf
tacrolimus	tacrolimus
temsirolimus	temsirolimus
temsirolimus	Torisel
teriflunomide	Aubagio
thalidomide	Thalomid

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
tildrakizumab-asmn	Ilumya
tocilizumab	Actemra
tocilizumab	Actemra ACTPen
tofacitinib citrate	Xeljanz
tofacitinib citrate	Xeljanz XR
upadacitinib	Rinvoq
ustekinumab	Stelara
vedolizumab	Entyvio

**Medicines for obstructive airway disease**

aclidinium bromide	Tudorza Pressair
aclidinium bromide/formoterol fumarate	Duaklir Pressair
albuterol sulfate	albuterol sulfate
albuterol sulfate	Proair Digihaler
albuterol sulfate	ProAir HFA
albuterol sulfate	ProAir RespiClick
albuterol sulfate	Proventil HFA
albuterol sulfate	Ventolin HFA
aminophylline	aminophylline
arformoterol tartrate	Brovana
benralizumab	Fasenra
benralizumab	Fasenra Pen
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	brompheniramine-pseudoeph-DM
budesonide/formoterol fumarate	budesonide-formoterol
budesonide/formoterol fumarate	Symbicort
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
ephedrine sulfate	Akovaz
ephedrine sulfate	Bronkaid Max
ephedrine sulfate	Emerphed
ephedrine sulfate	ephedrine sulfate
ephedrine sulfate in 0.9 % sodium chloride/PF	ephedrine sulfate-0.9%NaCl(PF)
ephedrine sulfate in sterile water for injection/PF	ephedrine sulfate in water(PF)
ephedrine sulfate/guaifenesin	Bronkaid Dual Action
ephedrine sulfate/PF	ephedrine sulfate (PF)
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone propionate/salmeterol xinafoate	Advair Diskus
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
formoterol fumarate	Perforomist
glycopyrrolate	Seebri Neohaler
glycopyrrolate/formoterol fumarate	Bevespi Aerosphere
glycopyrrolate/nebulizer accessories	Lonhala Magnair Refill
glycopyrrolate/nebulizer and accessories	Lonhala Magnair Starter
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Aquanaz PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Bionel
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Bionel Pediatric

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Capmist DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Desgen DM (pseudoephedrine)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Despec-DM (pseudoeph-DM-guaif)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Pecgen PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Poly-Vent DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	TRISPEC PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel DM Pediatric(pseudoeph)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel New Formula
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tussin CF
guaifenesin/ephedrine HCl	Bronchial Asthma Relief
guaifenesin/ephedrine HCl	Primatene Asthma
guaifenesin/pseudoephedrine HCl	Congest-Eze
guaifenesin/pseudoephedrine HCl	Entex T
guaifenesin/pseudoephedrine HCl	Maxifed
guaifenesin/pseudoephedrine HCl	Mucinex D
guaifenesin/pseudoephedrine HCl	Mucinex D Maximum Strength
guaifenesin/pseudoephedrine HCl	Mucus D
guaifenesin/pseudoephedrine HCl	Mucus Relief D (pseudoeph)
guaifenesin/pseudoephedrine HCl	Poly-Vent IR
guaifenesin/pseudoephedrine HCl	pseudoephedrine-guaifenesin
guaifenesin/pseudoephedrine HCl	Respire-30
guaifenesin/pseudoephedrine HCl	Tusnel Pediatric
hydrocodone bitartrate/pseudoephedrine HCl/guaifenesin	Hycofenix
indacaterol maleate	Arcapta Neohaler
indacaterol maleate/glycopyrrolate	Utibron Neohaler
ipratropium bromide/albuterol sulfate	Combivent Respimat
ipratropium bromide/albuterol sulfate	ipratropium-albuterol
levalbuterol HCl	levalbuterol HCl
levalbuterol HCl	Xopenex
levalbuterol HCl	Xopenex Concentrate
levalbuterol tartrate	levalbuterol tartrate
levalbuterol tartrate	Xopenex HFA
mepolizumab	Nucala
metaproterenol sulfate	metaproterenol
mometasone furoate/formoterol fumarate	Dulera
montelukast sodium	montelukast
montelukast sodium	Singulair
olodaterol HCl	Striverdi Respimat
omalizumab	Xolair
pseudoephedrine HCl/chlophedianol HCl/guaifenesin	Certuss-D
pseudoephedrine HCl/codeine phosphate/guaifenesin	Coditussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Guaifenesin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Lortuss EX
pseudoephedrine HCl/codeine phosphate/guaifenesin	Virtussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 25
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 30
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 35
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 40
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 50
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 60
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 80

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
pseudoephedrine/dextromethorphan/guaifenesin/acetaminophen	Cough and Cold
pseudoephedrine/dextromethorphan/guaifenesin/acetaminophen	Daytime Cold and Flu Relief
pseudoephedrine/dextromethorphan/guaifenesin/acetaminophen	Duraflu
racepinephrine HCl	Asthmanefrin Refill
racepinephrine HCl	S2 Racepinephrine
reslizumab	Cinqair
revefenacin	Yupelri
roflumilast	Daliresp
salmeterol xinafoate	Serevent Diskus
terbutaline sulfate	terbutaline
theophylline anhydrous	Elixophyllin
theophylline anhydrous	Theo-24
theophylline anhydrous	theophylline
theophylline in dextrose 5 % in water	theophylline in dextrose 5 %
tiotropium bromide	Spiriva Respimat
tiotropium bromide	Spiriva with HandiHaler
tiotropium bromide/olodaterol HCl	Stiolto Respimat
umeclidinium bromide	Incruse Ellipta
umeclidinium bromide/vilanterol trifenate	Anoro Ellipta
zafirlukast	Accolate
zafirlukast	zafirlukast
zileuton	zileuton
zileuton	Zyflo
zileuton	Zyflo CR

**Nasal preparations**

0.9 % sodium chloride	Little Remedies Saline Mist
0.9 % sodium chloride	Nasal Mist
0.9 % sodium chloride	Sterile Saline
aloe/sodium chloride/vitamin E	ENTSOL
ascorbic acid/vitamin D3/vitamin E/zinc gluconate/elderberry	Airborne Vits Zinc Elderberry
azelastine HCl	Astepro
azelastine HCl	azelastine
azelastine HCl	azelastine (bulk)
azelastine HCl/fluticasone propionate	azelastine-fluticasone
azelastine HCl/fluticasone propionate	Dymista
azelastine/fluticasone/sodium chloride/sodium bicarbonate	Ticalast
beclomethasone dipropionate	Beconase AQ
beclomethasone dipropionate	QNASL
beclomethasone dipropionate	Qvar
beclomethasone dipropionate	Qvar RediHaler
brompheniramine maleate/phenylephrine HCl	Brohist D
brompheniramine maleate/phenylephrine HCl	Child Triaminic Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Child Wal-Tap Cold-Allergy
brompheniramine maleate/phenylephrine HCl	Children's Cold-Allergy (PE)
brompheniramine maleate/phenylephrine HCl	Children's Dibromm Cold-Allerg
brompheniramine maleate/phenylephrine HCl	Cold and Allergy (bromphen-PE)
brompheniramine maleate/phenylephrine HCl	Dimaphen (PE)
brompheniramine maleate/phenylephrine HCl	Dimetapp Cold-Allergy (PE)
brompheniramine maleate/phenylephrine HCl	Glenmax PEB
brompheniramine maleate/phenylephrine HCl	Maxi-Tuss PE
brompheniramine maleate/phenylephrine HCl	Ru-Hist D

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
brompheniramine maleate/phenylephrine HCl	Rynex PE
brompheniramine maleate/phenylephrine HCl	Vazobid-PD
brompheniramine maleate/phenylephrine HCl	Wal-Tap
brompheniramine maleate/pseudoephedrine HCl	Brotapp
brompheniramine maleate/pseudoephedrine HCl	Lodrane D
brompheniramine maleate/pseudoephedrine HCl	Rynex PSE
brompheniramine maleate/pseudoephedrine HCl	Valu-Tapp
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Atuss DA
brompheniramine maleate/pseudoephedrine HCl/chlophedianol	Y-Tuss
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Mar-Cof BP
brompheniramine maleate/pseudoephedrine HCl/codeine phosphat	Rydex
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bio-Dtuss DMX
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Bromfed DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	brompheniramine-pseudoeph-DM
brompheniramine maleate/pseudoephedrine HCl/dextromethorphan	Brotapp DM
budesonide	budesonide
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	Rhinocort Allergy
budesonide/formoterol fumarate	budesonide-formoterol
budesonide/formoterol fumarate	Symbicort
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
cetirizine HCl/pseudoephedrine HCl	All Day Allergy-D
cetirizine HCl/pseudoephedrine HCl	Allergy Complete-D
cetirizine HCl/pseudoephedrine HCl	Allergy D-12
cetirizine HCl/pseudoephedrine HCl	Allergy Relief-D (cetirizine)
cetirizine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D (cet)
cetirizine HCl/pseudoephedrine HCl	Aller-Tec D
cetirizine HCl/pseudoephedrine HCl	Cetiri-D
cetirizine HCl/pseudoephedrine HCl	cetirizine-pseudoephedrine
cetirizine HCl/pseudoephedrine HCl	Wal-Zyr D
cetirizine HCl/pseudoephedrine HCl	Zyrtec-D
chlorcyclizine HCl/pseudoephedrine HCl	Stahist AD
chlorpheniramine maleate/pseudoephedrine HCl	LoHist - D
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Cold and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	SudoGest Sinus and Allergy
chlorpheniramine maleate/pseudoephedrine HCl	Wal-Finate-D
chlorpheniramine maleate/pseudoephedrine HCl	Wal-phed
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 25
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 30
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 35
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 40
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 50
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 60
chlorpheniramine maleate/pseudoephedrine HCl/codeine	Zodryl DAC 80
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Allergy Sinus
ciclesonide	Alvesco
ciclesonide	Omnaris
ciclesonide	Zetonna
cocaine HCl	cocaine
cocaine HCl	Goprelto
cocaine HCl	Numbrino



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
cromolyn sodium	cromolyn
cromolyn sodium	cromolyn (bulk)
cromolyn sodium	Gastrocrom
cromolyn sodium	Nasal Allergy Symptom Control
cromolyn sodium	Nasalcrom
desloratadine/pseudoephedrine sulfate	Clarinet-D 12 HOUR
dexbrompheniramine maleate/phenylephrine HCl	Alahist PE
dexbrompheniramine maleate/phenylephrine HCl	Ala-Hist PE
dexbrompheniramine maleate/phenylephrine HCl	Dallergy (dexbrompheniramn-PE)
dexbrompheniramine maleate/phenylephrine HCl	dexbrompheniramine-phenyleph
dexbrompheniramine maleate/pseudoephedrine HCl	Acticon (dexbromph-pse)
dexbrompheniramine maleate/pseudoephedrine HCl	Conex
dexbrompheniramine maleate/pseudoephedrine HCl/chlophedianol	Chlo Tuss
dexchlorpheniramine maleate/phenylephrine HCl	Rymed (dexchlorpheniramine-PE)
dexchlorpheniramine maleate/phenylephrine HCl	Stahist (dexchlorpheniramine)
dexchlorpheniramine maleate/pseudoephedrine HCl	Deltuss DP
dexchlorpheniramine maleate/pseudoephedrine HCl	Rescon
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	DAY-TIME
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Daytime Cold and Flu Relief
dextromethorphan HBr/pseudoephedrine HCl/acetaminophen	Non-Aspirin Flu
diphenhydramine HCl in 0.9 % sodium chloride	diphenhydramine-0.9 % sod.chlr
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Glentuss
doxylamine succ/pseudoephedrine HCl/dextromethorphan Hbr	Lortuss DM
doxylamine succinate/phenylephrine HCl	doxylamine-phenylephrine
doxylamine succinate/phenylephrine HCl	Poly Hist Forte
doxylamine succinate/phenylephrine HCl	Poly Hist Forte (doxylamine)
doxylamine succinate/pseudoephedrine HCl	Lortuss LQ
epinephrine HCl	Adrenalin
epinephrine HCl	epinephrine HCl
eucalyptus/peppermint oil	Ponaris
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Allegra-D 24 Hour
fexofenadine HCl/pseudoephedrine HCl	Allergy Relief-D(fexofenadine)
fexofenadine HCl/pseudoephedrine HCl	Allergy-Congest Relief-D(fexo)
fexofenadine HCl/pseudoephedrine HCl	fexofenadine-pseudoephedrine
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 12 Hour
fexofenadine HCl/pseudoephedrine HCl	Wal-Fex D 24 Hour
flunisolide	Aerospan
flunisolide	flunisolide
flunisolide	flunisolide (bulk)
fluticasone furoate	Arnuity Ellipta
fluticasone furoate	Children's Flonase Sensimist
fluticasone furoate	Flonase Sensimist
fluticasone furoate/umeclidinium bromide/vilanterol trifenat	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone propionate	24 Hour Allergy Relief
fluticasone propionate	Aller-Flo
fluticasone propionate	Allergy Relief (fluticasone)
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	ArmonAir RespiClick
fluticasone propionate	Childrens 24 Hr Allergy Relief
fluticasone propionate	Children's Flonase Allergy Rlf

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
fluticasone propionate	ClariSpray
fluticasone propionate	Flonase Allergy Relief
fluticasone propionate	Flovent Diskus
fluticasone propionate	Flovent HFA
fluticasone propionate	fluticasone propionate
fluticasone propionate	fluticasone propionate (bulk)
fluticasone propionate	Xhance
fluticasone propionate, micronized	fluticasone prop, micro (bulk)
fluticasone propionate/salmeterol xinafoate	Advair Diskus
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticanase
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticaspray
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Actinel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Aquanaz PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Bionel
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Bionel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Capmist DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Desgen DM (pseudoephedrine)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Despec-DM (pseudoeph-DM-guaif)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Pecgen PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Poly-Vent DM
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	TRISPEC PSE
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel DM Pediatric(pseudoeph)
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel New Formula
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tusnel Pediatric
guaifenesin/dextromethorphan HBr/pseudoephedrine HCl	Tussin CF
guaifenesin/pseudoephedrine HCl	Congest-Eze
guaifenesin/pseudoephedrine HCl	Entex T
guaifenesin/pseudoephedrine HCl	Maxifed
guaifenesin/pseudoephedrine HCl	Mucinex D
guaifenesin/pseudoephedrine HCl	Mucinex D Maximum Strength
guaifenesin/pseudoephedrine HCl	Mucus D
guaifenesin/pseudoephedrine HCl	Mucus Relief D (pseudoephed)
guaifenesin/pseudoephedrine HCl	Poly-Vent IR
guaifenesin/pseudoephedrine HCl	pseudoephedrine-guaifenesin
guaifenesin/pseudoephedrine HCl	Respaire-30
guaifenesin/pseudoephedrine HCl	Tusnel Pediatric
hypromellose	Alzair
hypromellose	hypromellose
hypromellose	hypromellose (bulk)
hypromellose	Methocel E 4 M
hypromellose capsules (empty)	AR Caps
hypromellose capsules (empty)	Capsule #0 (hypromellose)
hypromellose capsules (empty)	Capsule #00 (hypromellose)
hypromellose capsules (empty)	Capsule #1 (hypromellose)
hypromellose capsules (empty)	Capsule #3 (hypromellose)
hypromellose capsules (empty)	Capsule Coni-Snap #0(hypromel)

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
hypromellose capsules (empty)	Capsule Coni-Snap #1(hypromel)
hypromellose capsules (empty)	Capsule Coni-Snap #3(hypromel)
hypromellose delayed release capsules (empty)	Capsule #0 DRcaps
hypromellose delayed release capsules (empty)	Capsule #1 DRcaps
ibuprofen/pseudoephedrine HCl	Advil Cold and Sinus
ibuprofen/pseudoephedrine HCl	Cold and Sinus Pain Relief
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold-Sinus(with PSE)
ibuprofen/pseudoephedrine HCl	Wal-Profen Cold-Sinus
ibuprofen/pseudoephedrine HCl	Wal-Profen D Cold and Sinus
ipratropium bromide	Atrovent HFA
ipratropium bromide	ipratropium bromide
ipratropium bromide	ipratropium bromide (bulk)
ipratropium bromide/albuterol sulfate	Combivent Respimat
ipratropium bromide/albuterol sulfate	ipratropium-albuterol
levmetamfetamine	Decongestant Inhaler
levmetamfetamine	Nasal Decongestant Inhaler
levmetamfetamine	Vapor Inhaler
loratadine/pseudoephedrine sulfate	Alavert D-12 Allergy-Sinus
loratadine/pseudoephedrine sulfate	AllerClear D-12hr
loratadine/pseudoephedrine sulfate	AllerClear D-24hr
loratadine/pseudoephedrine sulfate	Allergy and Congestion Relief
loratadine/pseudoephedrine sulfate	Allergy Relief D12
loratadine/pseudoephedrine sulfate	Allergy Relief D-24hr
loratadine/pseudoephedrine sulfate	Allergy Relief,Nasal Decongest
loratadine/pseudoephedrine sulfate	Allergy Relief-D (loratadine)
loratadine/pseudoephedrine sulfate	Allergy-Congestion Relief-D
loratadine/pseudoephedrine sulfate	Claritin-D 12 Hour
loratadine/pseudoephedrine sulfate	Claritin-D 24 Hour
loratadine/pseudoephedrine sulfate	Lorata-D
loratadine/pseudoephedrine sulfate	lorata-dine D
loratadine/pseudoephedrine sulfate	Loratadine-D
loratadine/pseudoephedrine sulfate	loratadine-pseudoephedrine
loratadine/pseudoephedrine sulfate	Wal-itin D
loratadine/pseudoephedrine sulfate	Wal-Itin D 12 Hour
menthol/eucal/thymol/camphor/benz/sod chloride/pot chlorate	Alkalol Nasal Wash
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate	mometasone
mometasone furoate	Nasonex
mometasone furoate	Sinuva
mometasone furoate/formoterol fumarate	Dulera
mupirocin calcium	Bactroban Nasal
naproxen sodium/pseudoephedrine HCl	Aleve Cold and Sinus
naproxen sodium/pseudoephedrine HCl	Aleve Sinus and Headache
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Cold
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Headache
naproxen sodium/pseudoephedrine HCl	All Day Pain Relief Sinus,Cold
naproxen sodium/pseudoephedrine HCl	Sinus and Cold-D
naproxen sodium/pseudoephedrine HCl	Sudafed Sinus 12Hr Pressr-Pain
oil moisturizing combination no.2	GeloNasal
olopatadine HCl	olopatadine

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
olopatadine HCl	Patanase
oxymetazoline HCl	12 Hour Nasal Relief Spray
oxymetazoline HCl	12 Hour Nasal Spray
oxymetazoline HCl	Afrin (oxymetazoline)
oxymetazoline HCl	Afrin No Drip(oxymetazolin)
oxymetazoline HCl	Afrin Sinus (oxymetazoline)
oxymetazoline HCl	Anefrin
oxymetazoline HCl	Child Mucinex Stuffy Nose Spry
oxymetazoline HCl	Dristan Long Lasting
oxymetazoline HCl	Giltuss Severe Sinus
oxymetazoline HCl	Long Acting Nasal Spray
oxymetazoline HCl	Mucinex Sinus-Max
oxymetazoline HCl	Nasal Decongestant (oxymetazolin)
oxymetazoline HCl	Nasal Relief
oxymetazoline HCl	Nasal Spray (oxymetazoline)
oxymetazoline HCl	Nasal Spray 12Hr(oxymetazoline)
oxymetazoline HCl	Nasal Spray Extra Moisturizing
oxymetazoline HCl	Nasal Spray Long Acting
oxymetazoline HCl	Nasal Spray Sinus
oxymetazoline HCl	No Drip
oxymetazoline HCl	No Drip Nasal Mist
oxymetazoline HCl	Original Nasal Spray
oxymetazoline HCl	oxymetazoline
oxymetazoline HCl	oxymetazoline (bulk)
oxymetazoline HCl	Sinus Nasal Spray
oxymetazoline HCl	Sinus Relief (oxymetazoline)
oxymetazoline HCl	Vicks QlearQuil(oxymetazoline)
oxymetazoline HCl	Vicks Sinex 12-Hour
oxymetazoline HCl	Vicks Sinex Ultra Fine Mist 12
phenylephrine HCl/diphenhydramine HCl	Allergy and Sinus Relief
phenylephrine HCl/diphenhydramine HCl	Benadryl Allergy Plus Congest
phenylephrine HCl/diphenhydramine HCl	Child Allergy Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Child Benadryl Plus Congestion
phenylephrine HCl/diphenhydramine HCl	Children Night Time Cold-Cough
phenylephrine HCl/diphenhydramine HCl	Childs Triacting Cold-Cough
phenylephrine HCl/diphenhydramine HCl	Cold and Cough (diphenhydr-pe)
phenylephrine HCl/diphenhydramine HCl	Dimetapp Cold-Congestion
phenylephrine HCl/diphenhydramine HCl	Dr Manzanilla Cough-Cold
phenylephrine HCl/diphenhydramine HCl	Sudafed PE Day and Night
phenylephrine HCl/diphenhydramine HCl	Triaminic Cold and CoughNT(PE)
phenylephrine HCl/diphenhydramine HCl	Wal-Dryl-D Allergy and Sinus
phenylephrine HCl/pheniramine maleate	Alahist D
phenylephrine HCl/promethazine HCl	Promethazine VC
phenylephrine HCl/promethazine HCl	promethazine-phenylephrine
phenylephrine HCl/pyrilamine maleate	Glen PE
phenylephrine HCl/pyrilamine maleate	pyrilamine-phenylephrine
phenylephrine HCl/triprolidine HCl	Dr Manzanilla PE
phenylephrine HCl/triprolidine HCl	Histex PE
phenylephrine HCl/triprolidine HCl	Stahist TP
polyethylene glycol/potassium chl/propylene gly/sod.chloride	Rhinase
povidone-iodine	povidone-iodine (bulk)
povidone-iodine	Skin And Nasal Antiseptic

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
promethazine HCl in 0.9 % sodium chloride	promethazine in 0.9 % NaCl
propylhexedrine	Benedrex
pseudoephedrine HCl	12 Hour Decongestant
pseudoephedrine HCl	12 Hour Nasal Decongest (PSE)
pseudoephedrine HCl	Adult Nasal Decongestant
pseudoephedrine HCl	Children's Silfedrine
pseudoephedrine HCl	Children's Sudafed
pseudoephedrine HCl	Long Acting Nasal Decong (PSE)
pseudoephedrine HCl	Nasal Decongestant (pseudoeph)
pseudoephedrine HCl	Nexafed
pseudoephedrine HCl	Pedia Relief Infant Nasal
pseudoephedrine HCl	pseudoephedrine HCl
pseudoephedrine HCl	Sinus 12 Hour
pseudoephedrine HCl	Sudafed
pseudoephedrine HCl	Sudafed 12 Hour
pseudoephedrine HCl	Sudafed 24 Hour
pseudoephedrine HCl	Sudogest
pseudoephedrine HCl	Sudogest 12-hour
pseudoephedrine HCl	Suphedrin
pseudoephedrine HCl	Suphedrine
pseudoephedrine HCl	Suphedrine 12 Hour
pseudoephedrine HCl	Valu-Tapp Decongestant
pseudoephedrine HCl	Wal-phed
pseudoephedrine HCl	Wal-phed 12 hour
pseudoephedrine HCl	Wal-Phed D
pseudoephedrine HCl	Zephrex-D
pseudoephedrine HCl/acetaminophen	Nexafed Sinus Pressure-Pain
pseudoephedrine HCl/acetaminophen/chlorpheniramine	Allergy Sinus-D
pseudoephedrine HCl/acrivastine	Semprex-D
pseudoephedrine HCl/chlophedianol HCl	Rondec-D
pseudoephedrine HCl/chlophedianol HCl/guaifenesin	Certuss-D
pseudoephedrine HCl/chlorpheniramine maleate/bellad alk	Respa-AR
pseudoephedrine HCl/codeine phosphate/guaifenesin	Coditussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Guaifenesin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Lortuss EX
pseudoephedrine HCl/codeine phosphate/guaifenesin	Virtussin DAC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 25
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 30
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 35
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 40
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 50
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 60
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 80
pyrilamine maleate/pseudoephedrine HCl/chlophedianol HCl	Ninjacof-D
salt irrigation solution no.1	Ocean Complete
sea salt/sodium citrate/citric acid/sod bicarb/aloe vera xt	NasalCare Refill
sea salt/sodium citrate/citric acid/sod bicarb/aloe vera xt	NasalCare with Irrigator
sodium chloride	Altamist
sodium chloride	Ayr Allergy and Sinus
sodium chloride	Ayr Saline
sodium chloride	Baby Ayr Saline
sodium chloride	Children's Saline Nasal Spray

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
sodium chloride	Deep Sea Nasal
sodium chloride	Little Remedies
sodium chloride	NasaDrops
sodium chloride	Nasal Moisturizing
sodium chloride	Nasal Spray (sodium chloride)
sodium chloride	Ocean Nasal
sodium chloride	Saline Mist
sodium chloride	Saline Nasal
sodium chloride	Saline Nasal Mist
sodium chloride	Saline Nose
sodium chloride	sodium chloride
sodium chloride and bicarb/squeeze bottle nasal rinse device	Ayr Sinus Rinse
sodium chloride and bicarb/squeeze bottle nasal rinse device	Nasal Relief Sinus Wash-bottle
sodium chloride and bicarb/squeeze bottle nasal rinse device	Nasal Wash
sodium chloride and bicarb/squeeze bottle nasal rinse device	Neilmed Sinus Rinse Complete
sodium chloride and bicarb/squeeze bottle nasal rinse device	Sinus Rinse Pediatric
sodium chloride and bicarb/squeeze bottle nasal rinse device	Sinus Rinse Pediatric Starter
sodium chloride and bicarb/squeeze bottle nasal rinse device	Sinus Rinse Starter
sodium chloride and bicarb/squeeze bottle nasal rinse device	Sinus Wash System
sodium chloride for inhalation	Hyper-Sal
sodium chloride for inhalation	NebuSal
sodium chloride for inhalation	Pulmosal
sodium chloride for inhalation	sodium chloride
sodium chloride, sodium bicarb-electric nasal rinse device	Sinugator Nasal Wash Kit
sodium chloride,sod bicarb with neti pot nasal rinse device	Ayr Saline Nasal Neti Rinse
sodium chloride,sod bicarb with neti pot nasal rinse device	Nasaflo
sodium chloride,sod bicarb with neti pot nasal rinse device	Nasaflo Porcelain Kit
sodium chloride,sod bicarb with neti pot nasal rinse device	Nasal Relief Sinus Wash w/Neti
sodium chloride,sod bicarb with neti pot nasal rinse device	NeilMed NasaFlo
sodium chloride,sod bicarb with neti pot nasal rinse device	Sinus Wash Neti Pot
sodium chloride/aloe vera	Ayr Saline
sodium chloride/aloe vera	Ayr Saline Gel
sodium chloride/aloe vera	Saline Nasal (aloe vera)
sodium chloride/sodium bicarb/nasal rinse device and stand	Nasadock Plus Kit
sodium chloride/sodium bicarbonate	Ayr Sinus Rinse Refill
sodium chloride/sodium bicarbonate	Nasa Mist
sodium chloride/sodium bicarbonate	NasaMist
sodium chloride/sodium bicarbonate	Neilmed Pediat Sinus Rinse Ref
sodium chloride/sodium bicarbonate	Neilmed Sinus Rinse Refill
sodium chloride/sodium bicarbonate	Sinuflo ReadyRinse
sodium chloride/sodium bicarbonate	Sinus Rinse
sodium chloride/sodium bicarbonate	Sinus Wash
sodium chloride/sodium bicarbonate/hyaluronate sod/aloe vera	Nasogel
sodium chloride/sodium cit/potassium/magnes/calc/amino acid	Enterade Advanced Oncology
sodium chloride/sodium phosphate,dibasic/potassium phosphate	ENTSOL
sodium chloride/sodium phosphate,dibasic/potassium phosphate	ENTsol Nasal Wash
sodium chloride/yerba santa/glycerin	Pretz
thonzylamine HCl/phenylephrine HCl	Nasopen PE
triprolidine HCl/pseudoephedrine HCl	Aprodine
triprolidine HCl/pseudoephedrine HCl	Ed A-Hist PSE
triprolidine HCl/pseudoephedrine HCl	Maxifed TR
triprolidine HCl/pseudoephedrine HCl	Maxi-Tuss TR

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
triprolidine HCl/pseudoephedrine HCl	Ritifed
triprolidine HCl/pseudoephedrine HCl	Wal-Act D Cold and Allergy
Psychoanalectics	
amantadine HCl	amantadine HCl
amantadine HCl	Gocovri
amantadine HCl	Osmolex ER
amitriptyline HCl	amitriptyline
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amoxapine	amoxapine
amphetamine	Adzenys ER
amphetamine	Adzenys XR-ODT
amphetamine	amphetamine
amphetamine	Dyanavel XR
amphetamine sulfate	amphetamine sulfate
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
apomorphine HCl	APOKYN
apomorphine HCl	Kynmobi
armodafinil	armodafinil
armodafinil	Nuvigil
atomoxetine HCl	atomoxetine
atomoxetine HCl	Strattera
benztropine mesylate	benztropine
benztropine mesylate	Cogentin
brexanolone	Zulresso
bromocriptine mesylate	bromocriptine
bromocriptine mesylate	Cycloset
bromocriptine mesylate	Parlodel
bupropion HBr	Aplenzin
bupropion HCl	bupropion HCl
bupropion HCl	bupropion HCl (smoking deter)
bupropion HCl	Forfivo XL
bupropion HCl	Wellbutrin SR
bupropion HCl	Wellbutrin XL
bupropion HCl	Zyban
caffeine	Alertness Aid
caffeine	Awake
caffeine	caffeine
caffeine	Stay Awake
caffeine	Stay Awake Maximum Strength
caffeine	Vivarin
caffeine citrate	Cafcit
caffeine citrate	caffeine citrate
caffeine/sodium benzoate	caffeine-sodium benzoate
carbamazepine	carbamazepine
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol
carbamazepine	Tegretol XR
carbidopa	carbidopa

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
carbidopa	Lodosyn
carbidopa/levodopa	carbidopa-levodopa
carbidopa/levodopa	Duopa
carbidopa/levodopa	Rytary
carbidopa/levodopa	Sinemet
carbidopa/levodopa	Sinemet CR
carbidopa/levodopa/entacapone	carbidopa-levodopa-entacapone
carbidopa/levodopa/entacapone	Stalevo 100
carbidopa/levodopa/entacapone	Stalevo 125
carbidopa/levodopa/entacapone	Stalevo 150
carbidopa/levodopa/entacapone	Stalevo 200
carbidopa/levodopa/entacapone	Stalevo 50
carbidopa/levodopa/entacapone	Stalevo 75
chlordiazepoxide/clidinium bromide	chlordiazepoxide-clidinium
chlordiazepoxide/clidinium bromide	Librax (with clidinium)
citalopram hydrobromide	Celexa
citalopram hydrobromide	citalopram
clomipramine HCl	Anafranil
clomipramine HCl	clomipramine
clonazepam	clonazepam
clonazepam	Klonopin
desipramine HCl	desipramine
desipramine HCl	Norpramin
desvenlafaxine	desvenlafaxine
desvenlafaxine	Khedezla
desvenlafaxine succinate	desvenlafaxine succinate
desvenlafaxine succinate	Pristiq
dexmethylphenidate HCl	dexmethylphenidate
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	Focalin XR
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	dextroamphetamine
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenedi
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	dextroamphetamine-amphetamine
dextroamphetamine sulf-saccharate/amphetamine sulf-aspartate	Mydayis
divalproex sodium	Depakote
divalproex sodium	Depakote ER
divalproex sodium	Depakote Sprinkles
divalproex sodium	divalproex
donepezil HCl	Aricept
donepezil HCl	donepezil
doxepin HCl	doxepin
doxepin HCl	Silenor
duloxetine HCl	Cymbalta
duloxetine HCl	Drizalma Sprinkle
duloxetine HCl	duloxetine
entacapone	Comtan
entacapone	entacapone
ergotamine tartrate/caffeine	Cafergot



**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
ergotamine tartrate/caffeine	ergotamine-caffeine
ergotamine tartrate/caffeine	Migergot
escitalopram oxalate	escitalopram oxalate
escitalopram oxalate	Lexapro
esketamine HCl	Spravato
fluoxetine HCl	fluoxetine
fluoxetine HCl	Prozac
fluoxetine HCl	Sarafem
fluvoxamine maleate	fluvoxamine
galantamine HBr	galantamine
galantamine HBr	Razadyne
galantamine HBr	Razadyne ER
imipramine HCl	imipramine HCl
imipramine HCl	Tofranil
imipramine pamoate	imipramine pamoate
isocarboxazid	Marplan
isometheptene mucate/caffeine/acetaminophen	isomethepten-caf-acetaminophen
isometheptene mucate/caffeine/acetaminophen	Prodrin
istradefylline	Nourianz
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	Lamictal XR Starter (Orange)
lamotrigine	lamotrigine
lamotrigine	Subvenite
lamotrigine	Subvenite Starter (Blue) Kit
lamotrigine	Subvenite Starter (Green) Kit
lamotrigine	Subvenite Starter (Orange) Kit
levodopa	Inbrija
levomilnacipran HCl	Fetzima
lisdexamfetamine dimesylate	Vyvanse
lorazepam in 0.9 % sodium chloride	lorazepam in 0.9% sod chloride
lorazepam in 5 % dextrose and water	lorazepam in dextrose 5 %
lumateperone tosylate	Caplyta
maprotiline HCl	maprotiline
memantine HCl	memantine
memantine HCl	Namenda
memantine HCl	Namenda Titration Pak
memantine HCl	Namenda XR
memantine HCl/donepezil HCl	Namzaric
methamphetamine HCl	Desoxyn
methamphetamine HCl	methamphetamine
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate ER
methylphenidate HCl	Methylin
methylphenidate HCl	methylphenidate HCl
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin
methylphenidate HCl	Ritalin LA
midazolam HCl in 0.9 % sodium chloride	midazolam in 0.9 % sod chlorid
milnacipran HCl	Savella
mirtazapine	mirtazapine
mirtazapine	Remeron
mirtazapine	Remeron SolTab
modafinil	modafinil
modafinil	Provigil
naltrexone HCl/bupropion HCl	Contrave
nefazodone HCl	nefazodone
nortriptyline HCl	nortriptyline
nortriptyline HCl	Pamelor
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
olanzapine/fluoxetine HCl	Symbyax
opicapone	Ongentys
paroxetine HCl	paroxetine HCl
paroxetine HCl	Paxil
paroxetine HCl	Paxil CR
paroxetine mesylate	Brisdelle
paroxetine mesylate	paroxetine mesylate(menop.sym)
paroxetine mesylate	Pexeva
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
phenelzine sulfate	Nardil
phenelzine sulfate	phenelzine
pramipexole di-HCl	Mirapex
pramipexole di-HCl	Mirapex ER
pramipexole di-HCl	pramipexole
protriptyline HCl	protriptyline
rasagiline mesylate	Azilect
rasagiline mesylate	rasagiline
resveratrol/chromium pico/green tea/EGCG/caffeine/digestive3	Resveratrol Diet
rivastigmine	Exelon
rivastigmine	rivastigmine
rivastigmine tartrate	rivastigmine tartrate
ropinirole HCl	Requip
ropinirole HCl	Requip XL
ropinirole HCl	ropinirole
rotigotine	Neupro
safinamide mesylate	Xadago
selegiline	Emsam
selegiline HCl	selegiline HCl

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Generic Name	Brand Name
selegiline HCl	Zelapar
sertraline HCl	sertraline
sertraline HCl	Zoloft
solriamfetol HCl	Sunosi
tolcapone	Tasmar
tolcapone	tolcapone
tranylcypromine sulfate	Parnate
tranylcypromine sulfate	tranylcypromine
trazodone HCl	trazodone
trihexyphenidyl HCl	trihexyphenidyl
trimipramine maleate	Surmontil
trimipramine maleate	trimipramine
tryptophan	tryptophan
valproic acid	Depakene
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 XR
venlafaxine HCl	venlafaxine
vilazodone HCl	Viibryd
vortioxetine hydrobromide	Trintellix

**Psycholeptics**

alprazolam	alprazolam
alprazolam	Alprazolam Intensol
alprazolam	Xanax
alprazolam	Xanax XR
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amobarbital sodium	Amytal
aripiprazole	Abilify
aripiprazole	Abilify Maintena
aripiprazole	Abilify MyCite
aripiprazole	aripiprazole
aripiprazole lauroxil	Aristada
aripiprazole lauroxil, submicronized	Aristada Initio
asenapine	Secuado
asenapine maleate	asenapine maleate
asenapine maleate	Saphris
brexpiprazole	Rexulti
bromelains/melatonin/herbal complex no.233	MidNite PM
bupirone HCl	bupirone
butabarbital sodium	Butisol
butalbital/acetaminophen	Allzital
butalbital/acetaminophen	Bupap
butalbital/acetaminophen	butalbital-acetaminophen
butalbital/acetaminophen	Tencon
butalbital/acetaminophen/caffeine	butalbital-acetaminophen-caff
butalbital/acetaminophen/caffeine	Esgic
butalbital/acetaminophen/caffeine	Fioricet
butalbital/acetaminophen/caffeine	Phrenilin Forte(with caffeine)

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
butalbital/acetaminophen/caffeine	Vanatol LQ
butalbital/acetaminophen/caffeine	Vanatol S
butalbital/acetaminophen/caffeine	Vtol LQ
butalbital/acetaminophen/caffeine	Zebutal
butalbital/acetaminophen/caffeine/codeine phosphate	butalbital-acetaminop-caf-cod
butalbital/acetaminophen/caffeine/codeine phosphate	Fioricet with Codeine
butalbital/aspirin/caffeine	butalbital-aspirin-caffeine
butalbital/aspirin/caffeine	Fiorinal
calcium carb,hydroxide/soy isoflavone/black cohosh/melatonin	Estroven Nighttime (cal-meltn)
calcium phosphate, tribasic/melatonin	Alka-Seltzer PM (melatonin)
cariprazine HCl	Vraylar
chlordiazepoxide HCl	chlordiazepoxide HCl
chlordiazepoxide/clidinium bromide	chlordiazepoxide-clidinium
chlordiazepoxide/clidinium bromide	Librax (with clidinium)
chlorpromazine HCl	chlorpromazine
clobazam	clobazam
clobazam	Onfi
clobazam	Sympazan
clorazepate dipotassium	clorazepate dipotassium
clorazepate dipotassium	Tranxene T-Tab
clozapine	clozapine
clozapine	Clozaril
clozapine	FazaClo
clozapine	Versacloz
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
dexmedetomidine HCl	dexmedetomidine
dexmedetomidine HCl	Precedex
dexmedetomidine HCl in 0.9 % sodium chloride	dexmedetomidine in 0.9 % NaCl
dexmedetomidine HCl in 0.9 % sodium chloride	Precedex in 0.9 % sodium chlor
dexmedetomidine in 5 % dextrose in water	dexmedetomidine in dextrose 5%
diazepam	Diastat
diazepam	Diastat AcuDial
diazepam	diazepam
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
droperidol	droperidol
estazolam	estazolam
eszopiclone	eszopiclone
eszopiclone	Lunesta
ethyl alcohol/herbal drugs	Lydia Pinkham Herbal
fluphenazine decanoate	fluphenazine decanoate
fluphenazine HCl	fluphenazine HCl
flurazepam HCl	flurazepam
haloperidol	haloperidol
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	haloperidol decanoate
haloperidol lactate	Haldol

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
haloperidol lactate	haloperidol lactate
hydroxyzine HCl	hydroxyzine HCl
hydroxyzine pamoate	hydroxyzine pamoate
hydroxyzine pamoate	Vistaril
iloperidone	Fanapt
isometheptene mucate/dichloralphenazone/acetaminophen	isometh-dichloral-acetaminophen
isometheptene mucate/dichloralphenazone/acetaminophen	Nodolor
lithium carbonate	lithium carbonate
lithium carbonate	Lithobid
lithium citrate	lithium citrate
lorazepam	Ativan
lorazepam	lorazepam
lorazepam	Lorazepam Intensol
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	loxapine succinate
lurasidone HCl	Latuda
melatonin	Meladox
melatonin	Melatin
melatonin	melatonin
melatonin	VitaJoy Melatonin
melatonin/5-HTP/valerian/folic acid/dietary combination 28	Hypnosom
melatonin/5-Hydroxytryptophan/tryptophan/B6/magnesium oxide	Somnicin
melatonin/chamomile flower	melatonin-chamomile flower
melatonin/GABA/5-HTP/theanine/magnesium citrate,oxide/herbs	Sopordren
melatonin/gamma-aminobutyric acid/herbal complex no.183	Sinralyne-PM
melatonin/gamma-aminobutyric acid/valerian	Medi-Doze
melatonin/genistein/herbal complex no.233	Midnite for Menopause
melatonin/herbal complex no.184	melatonin-herbal complex #184
melatonin/herbal complex no.233	MidNite
melatonin/lemon balm leaf extract	melatonin-lemon balm leaf extr
melatonin/pyridoxal phosphate	Melatonin-B6 (pyridoxal phos)
melatonin/pyridoxal phosphate	melatonin-pyridoxal phos (B6)
melatonin/pyridoxine	Melatonin (with B6)
melatonin/pyridoxine	melatonin-pyridoxine (vit B6)
melatonin/pyridoxine HCl (vit B6)	melatonin-pyridoxine HCl (B6)
melatonin/tryptophan	Restone
melatonin/tryptophan	Wrestone
melatonin/tryptophan/valerian/chamomile/niacin/inositol/B6	Toprophan
meprobamate	meprobamate
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 dextrose 5% in water	midazolam in dextrose 5 %
midazolam HCl/PF	midazolam (PF)
midazolam in sodium chloride, iso-osmotic/PF	midazolam in NaCl,iso-osmo(PF)
midazolam/ketamine HCl/ondansetron HCl	MKO (Midazolam-Ketamine-Ondan)
molindone HCl	molindone
olanzapine	olanzapine
olanzapine	Zyprexa

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
olanzapine	Zyprexa Zydis
olanzapine pamoate	Zyprexa Relprevv
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
olanzapine/fluoxetine HCl	Symbyax
oxazepam	oxazepam
paliperidone	Invega
paliperidone	paliperidone
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
pentobarbital sodium	Nembutal Sodium
pentobarbital sodium	pentobarbital sodium
perphenazine	perphenazine
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
phenobarbital	phenobarbital
phenobarbital sodium	phenobarbital sodium
phenobarbital sodium in 0.9 % sodium chloride	phenobarbital in 0.9 % sod chl
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	Donnatal
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	phenobarb-hyoscy-atropine-scop
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	Phenoxytro
pimavanserin tartrate	Nuplazid
pimozide	Orap
pimozide	pimozide
prochlorperazine	Compazine
prochlorperazine	Compro
prochlorperazine	prochlorperazine
prochlorperazine edisylate	prochlorperazine Edisylate
prochlorperazine maleate	Compazine
prochlorperazine maleate	prochlorperazine maleate
quazepam	Doral
quazepam	quazepam
quetiapine fumarate	quetiapine
quetiapine fumarate	Seroquel
quetiapine fumarate	Seroquel XR
ramelteon	ramelteon
ramelteon	Rozerem
remimazolam besylate	Byfavo
risperidone	Perseris
risperidone	Risperdal
risperidone	Risperdal M-TAB
risperidone	risperidone
risperidone microspheres	Risperdal Consta
secobarbital sodium	Seconal Sodium
suvorexant	Belsomra
tasimelteon	Hetlioz
temazepam	Restoril
temazepam	temazepam
thioridazine HCl	thioridazine
thiothixene	thiothixene
triazolam	Halcion
triazolam	triazolam
trifluoperazine HCl	trifluoperazine
valerian root	valerian root

**Appendix M. List of Generic and Brand Names of Medical Products Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

<b>Generic Name</b>	<b>Brand Name</b>
valerian root	valerian root (bulk)
valerian root extract	valerian root extract
valerian root extract/hops	valerian root extract-hops
valerian root/oats/cayenne seed/hops/skullcap/wood betony	Refex
valerian root/oats/cayenne seed/hops/skullcap/wood betony	Valinex
valerian rt/passion flowr/celery/catnip/hops/bit.orang peel	Relax and Sleep
valerian/passion flower/hops/lemon balm	valerian-flower-hops-lemon
zaleplon	Sonata
zaleplon	zaleplon
ziprasidone HCl	Geodon
ziprasidone HCl	ziprasidone HCl
ziprasidone mesylate	Geodon
ziprasidone mesylate	ziprasidone mesylate
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	zolpidem
zolpidem tartrate	Zolpimist

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code Category	Code Type
<b>Analgesics</b>			
80143	Acetaminophen	Procedure	HCPCS
C9040	Injection, fremanezumab-vfrm, 1 mg	Procedure	HCPCS
J0595	Injection, butorphanol tartrate, 1 mg	Procedure	HCPCS
J1110	Injection, dihydroergotamine mesylate, per 1 mg	Procedure	HCPCS
J2175	Injection, meperidine HCl, per 100 mg	Procedure	HCPCS
J2270	Injection, morphine sulfate, up to 10 mg	Procedure	HCPCS
J2274	Injection, morphine sulfate, preservative free for epidural or intrathecal use, 10 mg	Procedure	HCPCS
J2300	Injection, nalbuphine HCl, per 10 mg	Procedure	HCPCS
J2410	Injection, oxymorphone HCl, up to 1 mg	Procedure	HCPCS
J3030	Injection, sumatriptan succinate, 6 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
J3031	Injection, fremanezumab-vfrm, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
S0012	Butorphanol tartrate, nasal spray, 25 mg	Procedure	HCPCS
S0092	Injection, hydromorphone HCl, 250 mg (loading dose for infusion pump)	Procedure	HCPCS
S0093	Injection, morphine sulfate, 500 mg (loading dose for infusion pump)	Procedure	HCPCS
J3010	Injection, fentanyl citrate, 0.1 mg	Procedure	HCPCS
J1810	Injection, droperidol and fentanyl citrate, up to 2 ml ampule	Procedure	HCPCS
J1170	Injection, hydromorphone, up to 4 mg	Procedure	HCPCS
J2180	Injection, meperidine and promethazine hcl, up to 50 mg	Procedure	HCPCS
J3070	Injection, pentazocine, 30 mg	Procedure	HCPCS
<b>Antibacterials</b>			
J7682	Tobramycin, inhalation solution, FDA-approved final product, noncompounded, unit dose form, administered through DME, per 300 mg	Procedure	HCPCS
J3243	Injection, tigecycline, 1 mg	Procedure	HCPCS
84695	Gentamicin	Procedure	CPT-4
C9116	Injection, ertapenem sodium, per 1 gram vial	Procedure	HCPCS
S0073	Injection, aztreonam, 500 mg	Procedure	HCPCS
J0561	Injection, penicillin G benzathine, 100,000 units	Procedure	HCPCS
Q0144	Azithromycin dihydrate, oral, capsules/powder, 1 g	Procedure	HCPCS
J2265	Injection, minocycline HCl, 1 mg	Procedure	HCPCS
80202	Vancomycin	Procedure	CPT-4
J0693	Injection, cefiderocol, 5 mg	Procedure	HCPCS
S0016	Injection, amikacin sulfate, 500 mg	Procedure	HCPCS
J0694	Injection, ceftazidime sodium, 1 g	Procedure	HCPCS
S0072	Injection, amikacin sulfate, 100 mg	Procedure	HCPCS
J0714	Injection, ceftazidime and avibactam, 0.5 g/0.125 g	Procedure	HCPCS
J2280	Injection, moxifloxacin, 100 mg	Procedure	HCPCS
J0295	Injection, ampicillin sodium/sulbactam sodium, per 1.5 g	Procedure	HCPCS
J3370	Injection, vancomycin HCl, 500 mg	Procedure	HCPCS
S0080	Injection, pentamidine isethionate, 300 mg	Procedure	HCPCS
J0743	Injection, cilastatin sodium; imipenem, per 250 mg	Procedure	HCPCS
S0030	Injection, metronidazole, 500 mg	Procedure	HCPCS
80150	Amikacin	Procedure	CPT-4
J3260	Injection, tobramycin sulfate, up to 80 mg	Procedure	HCPCS



**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
J0558	Injection, penicillin G benzathine and penicillin G procaine, 100,000 units	Procedure	HCPCS
84810	Tobramycin	Procedure	CPT-4
C9462	Injection, delafloxacin, 1 mg	Procedure	HCPCS
J2010	Injection, lincomycin HCl, up to 300 mg	Procedure	HCPCS
S0039	Injection, sulfamethoxazole and trimethoprim, 10 ml	Procedure	HCPCS
J0456	Injection, azithromycin, 500 mg	Procedure	HCPCS
J0121	Injection, omadacycline, 1 mg	Procedure	HCPCS
J1335	Injection, ertapenem sodium, 500 mg	Procedure	HCPCS
S0081	Injection, piperacillin sodium, 500 mg	Procedure	HCPCS
J2510	Injection, penicillin G procaine, aqueous, up to 600,000 units	Procedure	HCPCS
J1267	Injection, doripenem, 10 mg	Procedure	HCPCS
80170	Gentamicin	Procedure	CPT-4
J0692	Injection, cefepime HCl, 500 mg	Procedure	HCPCS
J0560	Injection, penicillin G benzathine, up to 600,000 units	Procedure	HCPCS
J3000	Injection, streptomycin, up to 1 g	Procedure	HCPCS
J3090	Injection, tedizolid phosphate, 1 mg	Procedure	HCPCS
J0559	Injection, penicillin G benzathine and penicillin G procaine, 2500 units	Procedure	HCPCS
J0691	Injection, lefamulin, 1 mg	Procedure	HCPCS
J0291	Injection, plazomicin, 5 mg	Procedure	HCPCS
S0077	Injection, clindamycin phosphate, 300 mg	Procedure	HCPCS
J0540	Injection, penicillin G benzathine and penicillin G procaine, up to 1,200,000 units	Procedure	HCPCS
J0122	Injection, eravacycline, 1 mg	Procedure	HCPCS
S0142	Colistimethate sodium, inhalation solution administered through DME, concentrated form, per mg	Procedure	HCPCS
J0290	Injection, ampicillin sodium, 500 mg	Procedure	HCPCS
J0695	Injection, ceftolozane 50 mg and tazobactam 25 mg	Procedure	HCPCS
J0715	Injection, ceftizoxime sodium, per 500 mg	Procedure	HCPCS
J0698	Injection, cefotaxime sodium, per g	Procedure	HCPCS
J0878	Injection, daptomycin, 1 mg	Procedure	HCPCS
J2770	Injection, quinupristin/dalfopristin, 500 mg (150/350)	Procedure	HCPCS
J0875	Injection, dalbavancin, 5 mg	Procedure	HCPCS
J7685	Tobramycin, inhalation solution, compounded product, administered through DME, unit dose form, per 300 mg	Procedure	HCPCS
J0530	Injection, penicillin G benzathine and penicillin G procaine, up to 600,000 units	Procedure	HCPCS
J1956	Injection, levofloxacin, 250 mg	Procedure	HCPCS
80200	Tobramycin	Procedure	CPT-4
J0697	Injection, sterile cefuroxime sodium, per 750 mg	Procedure	HCPCS
J0712	Injection, ceftaroline fosamil, 10 mg	Procedure	HCPCS
C9051	Injection, omadacycline, 1 mg	Procedure	HCPCS
J2700	Injection, oxacillin sodium, up to 250 mg	Procedure	HCPCS
J0696	Injection, ceftriaxone sodium, per 250 mg	Procedure	HCPCS
J0770	Injection, colistimethate sodium, up to 150 mg	Procedure	HCPCS
J0550	Injection, penicillin G benzathine and penicillin G procaine, up to 2,400,000 units	Procedure	HCPCS
J2020	Injection, linezolid, 200 mg	Procedure	HCPCS
C9039	Injection, plazomicin, 5 mg	Procedure	HCPCS
J1364	Injection, erythromycin lactobionate, per 500 mg	Procedure	HCPCS
J0278	Injection, amikacin sulfate, 100 mg	Procedure	HCPCS
S0074	Injection, cefotetan disodium, 500 mg	Procedure	HCPCS
82112	Amikacin	Procedure	CPT-4

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
J3095	Injection, telavancin, 10 mg	Procedure	HCPCS
J0720	Injection, chloramphenicol sodium succinate, up to 1 g	Procedure	HCPCS
S0040	Injection, ticarcillin disodium and clavulanate potassium, 3.1 g	Procedure	HCPCS
J0580	Injection, penicillin G benzathine, up to 2,400,000 units	Procedure	HCPCS
J2540	Injection, penicillin G potassium, up to 600,000 units	Procedure	HCPCS
J1580	Injection, garamycin, gentamicin, up to 80 mg	Procedure	HCPCS
C9054	Injection, lefamulin (Xenleta), 1 mg	Procedure	HCPCS
J0744	Injection, ciprofloxacin for intravenous infusion, 200 mg	Procedure	HCPCS
J2186	Injection, meropenem, vaborbactam, 10 mg/10 mg, (20 mg)	Procedure	HCPCS
J0690	Injection, cefazolin sodium, 500 mg	Procedure	HCPCS
J2543	Injection, piperacillin sodium/tazobactam sodium, 1 g/0.125 g (1.125 g)	Procedure	HCPCS
J2407	Injection, oritavancin, 10 mg	Procedure	HCPCS
J0742	Injection, imipenem 4 mg, cilastatin 4 mg and relebactam 2 mg	Procedure	HCPCS
J2185	Injection, meropenem, 100 mg	Procedure	HCPCS
S0032	Injection, nafcillin sodium, 2 g	Procedure	HCPCS
J0713	Injection, ceftazidime, per 500 mg	Procedure	HCPCS

**Anticoagulants**

C9047	Injection, caplacizumab-yhdp, 1 mg	Procedure	HCPCS
J0130	Injection abciximab, 10 mg	Procedure	HCPCS
J0583	Injection, bivalirudin, 1 mg	Procedure	HCPCS
J0883	Injection, argatroban, 1 mg (for non-ESRD use)	Procedure	HCPCS
J0884	Injection, argatroban, 1 mg (for ESRD on dialysis)	Procedure	HCPCS
J1327	Injection, eptifibatide, 5 mg	Procedure	HCPCS
J1650	Injection, enoxaparin sodium, 10 mg	Procedure	HCPCS
J1652	Injection, fondaparinux sodium, 0.5 mg	Procedure	HCPCS
J2993	Injection, reteplase, 18.1 mg	Procedure	HCPCS
J2997	Injection, alteplase recombinant, 1 mg	Procedure	HCPCS
J3101	Injection, tenecteplase, 1 mg	Procedure	HCPCS
J7197	Antithrombin iii (human), per i.u.	Procedure	HCPCS
J7196	Injection, antithrombin recombinant, 50 i.u.	Procedure	HCPCS
J0883	Injection, argatroban, 1 mg (for non-esrd use)	Procedure	HCPCS
J1645	Injection, dalteparin sodium, per 2500 iu	Procedure	HCPCS
XW03392	Introduction of Defibrotide Sodium Anticoagulant into Peripheral Vein, Percutaneous Approach, New Technology Group 2	Procedure	ICD-10-PCS
XW04392	Introduction of Defibrotide Sodium Anticoagulant into Central Vein, Percutaneous Approach, New Technology Group 2	Procedure	ICD-10-PCS
J1325	Injection, epoprostenol, 0.5 mg	Procedure	HCPCS
J1642	Injection, heparin sodium, (heparin lock flush), per 10 units	Procedure	HCPCS
J1644	Injection, heparin sodium, per 1000 units	Procedure	HCPCS
J2724	Injection, protein c concentrate, intravenous, human, 10 iu	Procedure	HCPCS
J3246	Injection, tirofiban hcl, 0.25 mg	Procedure	HCPCS

**Antihypertensives**

C9248	Injection, clevidipine butyrate, 1 mg	Procedure	HCPCS
J0210	Injection, methyldopate HCl, up to 250 mg	Procedure	HCPCS
J0360	Injection, hydralazine HCl, up to 20 mg	Procedure	HCPCS
J1205	Injection, chlorothiazide sodium, per 500 mg	Procedure	HCPCS
J1800	Injection, propranolol HCl, up to 1 mg	Procedure	HCPCS

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
J1940	Injection, furosemide, up to 20 mg	Procedure	HCPCS
J2440	Injection, papaverine HCl, up to 60 mg	Procedure	HCPCS
J2760	Injection, phentolamine mesylate, up to 5 mg	Procedure	HCPCS
S0171	Injection, bumetanide, 0.5 mg	Procedure	HCPCS
<b>Anti-inflammatories</b>			
C9059	Injection, meloxicam, 1 mg	Procedure	HCPCS
J1738	Injection, meloxicam, 1 mg	Procedure	HCPCS
J1741	Injection, ibuprofen, 100 mg	Procedure	HCPCS
J1885	Injection, ketorolac tromethamine, per 15 mg	Procedure	HCPCS
<b>Antimycotics</b>			
80187	Posaconazole	Procedure	CPT-4
80285	Voriconazole	Procedure	CPT-4
J0285	Injection, amphotericin B, 50 mg	Procedure	HCPCS
J0287	Injection, amphotericin B lipid complex, 10 mg	Procedure	HCPCS
J0288	Injection, amphotericin B cholesteryl sulfate complex, 10 mg	Procedure	HCPCS
J0289	Injection, amphotericin B liposome, 10 mg	Procedure	HCPCS
J0348	Injection, anidulafungin, 1 mg	Procedure	HCPCS
J0637	Injection, caspofungin acetate, 5 mg	Procedure	HCPCS
J2248	Injection, micafungin sodium, 1 mg	Procedure	HCPCS
J3465	Injection, voriconazole, 10 mg	Procedure	HCPCS
J1450	Injection fluconazole, 200 mg	Procedure	HCPCS
<b>Antivirals</b>			
J0740	Injection, cidofovir, 375 mg	Procedure	HCPCS
J1324	Injection, enfuvirtide, 1 mg	Procedure	HCPCS
J1455	Injection, foscarnet sodium, per 1,000 mg	Procedure	HCPCS
J1570	Injection, ganciclovir sodium, 500 mg	Procedure	HCPCS
J1746	Injection, ibalizumab-uiyk, 10 mg	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
J3485	Injection, zidovudine, 10 mg	Procedure	HCPCS
J9212	Injection, interferon alfacon-1, recombinant, 1 mcg	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	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
S0104	Zidovudine, oral, 100 mg	Procedure	HCPCS
J0133	Injection, acyclovir, 5 mg	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	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
J9216	Injection, interferon, gamma 1-b, 3 million units	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

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
S0145	Injection, pegylated interferon alfa-2a, 180 mcg per ml	Procedure	HCPCS
S0148	Injection, pegylated interferon alfa-2b, 10 mcg	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J2547	Injection, peramivir, 1 mg	Procedure	HCPCS
<b>Corticosteroids</b>			
C9469	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J1100	Injection, dexamethasone sodium phosphate, 1 mg	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J3300	Injection, triamcinolone acetonide, preservative free, 1 mg	Procedure	HCPCS
J3301	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	Procedure	HCPCS
J3303	Injection, triamcinolone hexacetonide, per 5 mg	Procedure	HCPCS
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
Q9993	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J7637	Dexamethasone, inhalation solution, compounded product, administered through dme, concentrated form. per milligram	Procedure	HCPCS
J7638	Dexamethasone, inhalation solution, compounded product, administered through dme, unit dose form. per milligram	Procedure	HCPCS
J1094	Injection, dexamethasone acetate, 1 mg	Procedure	HCPCS
J8540	Dexamethasone, oral, 0.25 mg	Procedure	HCPCS
J1700	Injection, hydrocortisone acetate, up to 25 mg	Procedure	HCPCS
J1710	Injection, hydrocortisone sodium phosphate, up to 50 mg	Procedure	HCPCS
J1720	Injection, hydrocortisone sodium succinate, up to 100 mg	Procedure	HCPCS
J7509	Methylprednisolone oral, per 4 mg	Procedure	HCPCS
J3302	Injection, triamcinolone diacetate, per 5 mg	Procedure	HCPCS
J7683	Triamcinolone, inhalation solution, compounded product, administered through dme, concentrated form. per milligram	Procedure	HCPCS
J7684	Triamcinolone, inhalation solution, compounded product, administered through dme, unit dose form. per milligram	Procedure	HCPCS
<b>Diabetes medications</b>			
S5571	Insulin delivery device, disposable pen (including insulin); 3 ml size	Procedure	HCPCS
S5570	Insulin delivery device, disposable pen (including insulin); 1.5 ml size	Procedure	HCPCS
S5566	Insulin cartridge for use in insulin delivery device other than pump; 300 units	Procedure	HCPCS
S5565	Insulin cartridge for use in insulin delivery device other than pump; 150 units	Procedure	HCPCS
S5553	Insulin, long acting; 5 units	Procedure	HCPCS
S5552	Insulin, intermediate acting (nph or lente); 5 units	Procedure	HCPCS
S5551	Insulin, most rapid onset (lispro or aspart); 5 units	Procedure	HCPCS
S5550	Insulin, rapid onset, 5 units	Procedure	HCPCS
J1817	Insulin for administration through dme (i.e., insulin pump) per 50 units	Procedure	HCPCS
J1815	Injection, insulin, per 5 units	Procedure	HCPCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Immune serum globulins</b>			
90371	Hepatitis B immune globulin (HBIG), human, for intramuscular use	Procedure	CPT-4
90384	Rho(D) immune globulin (RhIg), human, full-dose, for intramuscular use	Procedure	CPT-4
90385	Rho(D) immune globulin (RhIg), human, mini-dose, for intramuscular use	Procedure	CPT-4
90386	Rho(D) immune globulin (RhIgIV), human, for intravenous use	Procedure	CPT-4
90396	Varicella-zoster immune globulin, human, for intramuscular use	Procedure	CPT-4
C9490	Injection, bezlotoxumab, 10 mg	Procedure	HCPCS
J0565	Injection, bezlotoxumab, 10 mg	Procedure	HCPCS
J1571	Injection, hepatitis B immune globulin (Hepagam B), intramuscular, 0.5 ml	Procedure	HCPCS
J1573	Injection, hepatitis B immune globulin (Hepagam B), intravenous, 0.5 ml	Procedure	HCPCS
J2788	Injection, Rho D immune globulin, human, minidose, 50 mcg (250 IU)	Procedure	HCPCS
J2790	Injection, Rho D immune globulin, human, full dose, 300 mcg (1500 IU)	Procedure	HCPCS
J2791	Injection, Rho D immune globulin (human), (Rhophylac), intramuscular or intravenous, 100 IU	Procedure	HCPCS
J2792	Injection, Rho D immune globulin, intravenous, human, solvent detergent, 100 IU	Procedure	HCPCS
J0841	Injection, crotalidae immune f(ab') <sub>2</sub> (equine), 120 mg	Procedure	HCPCS
J0716	Injection, centrurides immune f(ab) <sub>2</sub> , up to 120 milligrams	Procedure	HCPCS
J0850	Injection, cytomegalovirus immune globulin intravenous (human), per vial	Procedure	HCPCS
J1566	Injection, immune globulin, intravenous, lyophilized (e.g., powder), not otherwise specified, 500 mg	Procedure	HCPCS
J1670	Injection, tetanus immune globulin, human, up to 250 units	Procedure	HCPCS
J2792	Injection, rho d immune globulin, intravenous, human, solvent detergent, 100 iu	Procedure	HCPCS
J7504	Lymphocyte immune globulin, antithymocyte globulin, equine, parenteral, 250 mg	Procedure	HCPCS
J2788	Injection, rho d immune globulin, human, minidose, 50 micrograms (250 i.u.)	Procedure	HCPCS
J2790	Injection, rho d immune globulin, human, full dose, 300 micrograms (1500 i.u.)	Procedure	HCPCS
J1561	Injection, immune globulin, (gamunex-c/gammaked), non-lyophilized (e.g., liquid), 500 mg	Procedure	HCPCS
J1562	Injection, immune globulin (vivaglobin), 100 mg	Procedure	HCPCS
J1568	Injection, immune globulin, (octagam), intravenous, non-lyophilized (e.g., liquid), 500 mg	Procedure	HCPCS
J1670	Injection, tetanus immune globulin, human, up to 250 units	Procedure	HCPCS
<b>Immunostimulants</b>			
C9058	Injection, pegfilgrastim-bmez, biosimilar, (Ziextenzo) 0.5 mg	Procedure	HCPCS
J1442	Injection, filgrastim (G-CSF), excludes biosimilars, 1 mcg	Procedure	HCPCS
J1447	Injection, tbo-filgrastim, 1 mcg	Procedure	HCPCS
J1595	Injection, glatiramer acetate, 20 mg	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
J2504	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
J2505	Injection, pegfilgrastim, 6 mg	Procedure	HCPCS
J2562	Injection, plerixafor, 1 mg	Procedure	HCPCS
J2820	Injection, sargramostim (GM-CSF), 50 mcg	Procedure	HCPCS
J9015	Injection, aldesleukin, per single use vial	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9215	Injection, interferon, alfa-N3, (human leukocyte derived), 250,000 IU	Procedure	HCPCS

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Code	Description	Code	
		Category	Code Type
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
Q5101	Injection, filgrastim-sndz, biosimilar, (Zarxio), 1 mcg	Procedure	HCPCS
Q5108	Injection, pegfilgrastim-jmdb, biosimilar, (Fulphila), 0.5 mg	Procedure	HCPCS
Q5110	Injection, filgrastim-aafi, biosimilar, (Nivestym), 1 mcg	Procedure	HCPCS
Q5111	Injection, pegfilgrastim-cbqv, biosimilar, (Udenyca), 0.5 mg	Procedure	HCPCS
Q5120	Injection, pegfilgrastim-bmez, biosimilar, (ZIEXTENZO), 0.5 mg	Procedure	HCPCS
Q5122	Injection, pegfilgrastim-apgf, biosimilar, (Nyvepria), 0.5 mg	Procedure	HCPCS
J9212	Injection, interferon alfacon-1, recombinant, 1 mcg	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
J9216	Injection, interferon, gamma 1-b, 3 million units	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
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
S0145	Injection, pegylated interferon alfa-2a, 180 mcg per ml	Procedure	HCPCS
S0148	Injection, pegylated interferon alfa-2b, 10 mcg	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
Q2043	Sipuleucel-t, minimum of 50 million autologous cd54+ cells activated with pap-gm-csf, including leukapheresis and all other preparatory procedures. per infusion	Procedure	HCPCS

**Immunosuppressants**

80145	Adalimumab	Procedure	CPT-4
80158	Cyclosporine	Procedure	CPT-4
80197	Tacrolimus	Procedure	CPT-4
80230	Infliximab	Procedure	CPT-4
80280	Vedolizumab	Procedure	CPT-4
4153F	Combination peginterferon and ribavirin therapy prescribed (HEP-C)	Procedure	CPT
			Category II
C9006	Injection, tacrolimus, per 5 mg (1 amp)	Procedure	HCPCS
C9020	Sirolimus tablet, 1 mg	Procedure	HCPCS
C9029	Injection, guselkumab, 1 mg	Procedure	HCPCS
C9050	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
C9052	Injection, ravulizumab-cwvz, 10 mg	Procedure	HCPCS
C9106	Sirolimus, per 1 mg/ml	Procedure	HCPCS
C9126	Injection natalizumab per 5 mg	Procedure	HCPCS
C9129	Injection, clofarabine, per 1 mg	Procedure	HCPCS
C9211	Injection, alefacept, for intravenous use, per 7.5 mg	Procedure	HCPCS
C9212	Injection, alefacept, for intramuscular use, per 7.5 mg	Procedure	HCPCS
C9230	Injection, abatacept, per 10 mg	Procedure	HCPCS
C9236	Injection, eculizumab, 10 mg	Procedure	HCPCS
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
C9261	Injection, ustekinumab, 1 mg	Procedure	HCPCS
C9264	Injection, tocilizumab, 1 mg	Procedure	HCPCS
C9286	Injection, belatacept, 1 mg	Procedure	HCPCS
C9436	Azathioprine, parenteral, brand name, per 100 mg	Procedure	HCPCS
C9438	Cyclosporine, oral, 100 mg, brand name	Procedure	HCPCS
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS

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Code	Description	Code	
		Category	Code Type
C9494	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
J0129	Injection, abatacept, 10 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
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
J0202	Injection, alemtuzumab, 1 mg	Procedure	HCPCS
J0215	Injection, alefacept, 0.5 mg	Procedure	HCPCS
J0480	Injection, basiliximab, 20 mg	Procedure	HCPCS
J0485	Injection, belatacept, 1 mg	Procedure	HCPCS
J0490	Injection, belimumab, 10 mg	Procedure	HCPCS
J0638	Injection, canakinumab, 1 mg	Procedure	HCPCS
J0638	Injection, canakinumab, 1 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J1300	Injection, eculizumab, 10 mg	Procedure	HCPCS
J1303	Injection, ravulizumab-cwvz, 10 mg	Procedure	HCPCS
J1438	Injection, etanercept, 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
J1595	Injection, glatiramer acetate, 20 mg	Procedure	HCPCS
J1600	Injection, gold sodium thiomalate, up to 50 mg	Procedure	HCPCS
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
J1628	Injection, guselkumab, 1 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
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
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
J2350	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
J2504	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
J2793	Injection, rilonacept, 1 mg	Procedure	HCPCS
J2860	Injection, siltuximab, 10 mg	Procedure	HCPCS
J2910	Injection, aurothioglucose, up to 50 mg	Procedure	HCPCS
J3245	Injection, tildrakizumab, 1 mg	Procedure	HCPCS
J3262	Injection, tocilizumab, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7503	Tacrolimus, extended release, (Envarsus XR), oral, 0.25 mg	Procedure	HCPCS
J7505	Muromonab-CD3, parenteral, 5 mg	Procedure	HCPCS
J7507	Tacrolimus, immediate release, oral, 1 mg	Procedure	HCPCS

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
J7508	Tacrolimus, extended release, (Astagraf XL), oral, 0.1 mg	Procedure	HCPCS
J7511	Lymphocyte immune globulin, antithymocyte globulin, rabbit, parenteral, 25 mg	Procedure	HCPCS
J7513	Daclizumab, parenteral, 25 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7516	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
J7517	Mycophenolate mofetil, oral, 250 mg	Procedure	HCPCS
J7520	Sirolimus, oral, 1 mg	Procedure	HCPCS
J7525	Tacrolimus, parenteral, 5 mg	Procedure	HCPCS
J8610	Methotrexate; oral, 2.5 mg	Procedure	HCPCS
J9027	Injection, clofarabine, 1 mg	Procedure	HCPCS
J9210	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
J9212	Injection, interferon alfacon-1, recombinant, 1 mcg	Procedure	HCPCS
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9215	Injection, interferon, alfa-N3, (human leukocyte derived), 250,000 IU	Procedure	HCPCS
J9216	Injection, interferon, gamma 1-b, 3 million units	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
K0119	Azathioprine, oral, tab, 50 mg	Procedure	HCPCS
K0120	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
K0122	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
K0412	Mycophenolate mofetil, oral, 250 mg (CellCept)	Procedure	HCPCS
Q2010	Injection, glatiramer acetate, per dose	Procedure	HCPCS
Q2012	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
Q2019	Injection, basiliximab, 20 mg	Procedure	HCPCS
Q2044	Injection, belimumab, 10 mg	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
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflixtra), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
S0145	Injection, pegylated interferon alfa-2a, 180 mcg per ml	Procedure	HCPCS
S0146	Injection, pegylated interferon alfa-2b, 10 mcg per 0.5 ml	Procedure	HCPCS
S0148	Injection, pegylated interferon alfa-2B, 10 mcg	Procedure	HCPCS
S0162	Injection, efalizumab, 125 mg	Procedure	HCPCS
S0176	Hydroxyurea, oral, 500 mg	Procedure	HCPCS
S0193	Injection alefacept, 7.5 mg (includes dose packaging)	Procedure	HCPCS
XW033G5	Introduction of Sarilumab into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW043G5	Introduction of Sarilumab into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS

**Medicines for obstructive airway disease**



**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
C9466	Injection, benralizumab, 1 mg	Procedure	HCPCS
J0517	Injection, benralizumab, 1 mg	Procedure	HCPCS
J2182	Injection, mepolizumab, 1 mg	Procedure	HCPCS
J2357	Injection, omalizumab, 5 mg	Procedure	HCPCS
J2786	Injection, reslizumab, 1 mg	Procedure	HCPCS
J3105	Injection, terbutaline sulfate, up to 1 mg	Procedure	HCPCS
J7680	Terbutaline sulfate, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J7681	Terbutaline sulfate, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J2810	Injection, theophylline, per 40 mg	Procedure	HCPCS
J0280	Aminophyllin 250mg injection	Procedure	HCPCS
<b>Nasal preparations</b>			
J1200	Injection, diphenhydramine hcl, up to 50 mg	Procedure	HCPCS
<b>Psychoanaleptics</b>			
C9055	Injection, brexanolone, 1 mg	Procedure	HCPCS
J0364	Injection, apomorphine HCl, 1 mg	Procedure	HCPCS
J0515	Injection, benzotropine mesylate, per 1 mg	Procedure	HCPCS
J1632	Injection, brexanolone, 1 mg	Procedure	HCPCS
<b>Psycholeptics</b>			
C9035	Injection, aripiprazole lauroxil (Aristada Initio), 1 mg	Procedure	HCPCS
C9037	Injection, risperidone (Perseris), 0.5 mg	Procedure	HCPCS
J0400	Injection, aripiprazole, intramuscular, 0.25 mg	Procedure	HCPCS
J0401	Injection, aripiprazole, extended release, 1 mg	Procedure	HCPCS
J1631	Injection, haloperidol decanoate, per 50 mg	Procedure	HCPCS
J1790	Injection, droperidol, up to 5 mg	Procedure	HCPCS
J1810	Injection, droperidol and fentanyl citrate, up to 2 ml ampule	Procedure	HCPCS
J1942	Injection, aripiprazole lauroxil, 1 mg	Procedure	HCPCS
J1943	Injection, aripiprazole lauroxil, (Aristada Initio), 1 mg	Procedure	HCPCS
J1944	Injection, aripiprazole lauroxil, (Aristada), 1 mg	Procedure	HCPCS
J2060	Injection, lorazepam, 2 mg	Procedure	HCPCS
J2250	Injection, midazolam HCl, per 1 mg	Procedure	HCPCS
J0400	Injection, aripiprazole, intramuscular, 0.25 mg	Procedure	HCPCS
J0401	Injection, aripiprazole, extended release, 1 mg	Procedure	HCPCS
C9035	Injection, aripiprazole lauroxil (aristada initio), 1 mg	Procedure	HCPCS
J2358	Injection, olanzapine, long-acting, 1 mg	Procedure	HCPCS
J2426	Injection, paliperidone palmitate extended release, 1 mg	Procedure	HCPCS
J2515	Injection, pentobarbital sodium, per 50 mg	Procedure	HCPCS
J2560	Injection, phenobarbital sodium, up to 120 mg	Procedure	HCPCS
J2680	Injection, fluphenazine decanoate, up to 25 mg	Procedure	HCPCS
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	Procedure	HCPCS
J2798	Injection, risperidone, (Perseris), 0.5 mg	Procedure	HCPCS
J3230	Injection, chlorpromazine HCl, up to 50 mg	Procedure	HCPCS
J3360	Injection, diazepam, up to 5 mg	Procedure	HCPCS
J3410	Injection, hydroxyzine HCl, up to 25 mg	Procedure	HCPCS
J3486	Injection, ziprasidone mesylate, 10 mg	Procedure	HCPCS

**Appendix N. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define COVID-19 Infection and Medicines in Pregnancy (CONSIGN) Medications of Interest**

Code	Description	Code	
		Category	Code Type
S0166	Injection, olanzapine, 2.5 mg	Procedure	HCPCS
J0300	Injection, amobarbital, up to 125 mg	Procedure	HCPCS
J1630	Injection, haloperidol, up to 5 mg	Procedure	HCPCS

**Appendix O. List of Non-Proprietary Names of Medical Products Used to Define Potential COVID-19 Medications**

Non-Proprietary Name
<b>ACEI or ARBs</b>
amlodipine besylate/benazepril HCl
amlodipine besylate/olmesartan medoxomil
amlodipine besylate/valsartan
amlodipine besylate/valsartan/hydrochlorothiazide
azilsartan medoxomil
azilsartan medoxomil/chlorthalidone
benazepril HCl
benazepril HCl/hydrochlorothiazide
candesartan cilexetil
candesartan cilexetil/hydrochlorothiazide
captopril
captopril/hydrochlorothiazide
enalapril maleate
enalapril maleate/hydrochlorothiazide
enalaprilat dihydrate
eprosartan mesylate
fosinopril sodium
fosinopril sodium/hydrochlorothiazide
irbesartan
irbesartan/hydrochlorothiazide
lisinopril
lisinopril/hydrochlorothiazide
losartan potassium
losartan potassium/hydrochlorothiazide
moexipril HCl
moexipril HCl/hydrochlorothiazide
nebivolol HCl/valsartan
olmesartan medoxomil
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide
olmesartan medoxomil/hydrochlorothiazide
perindopril arginine/amlodipine besylate
perindopril erbumine
quinapril HCl
quinapril HCl/hydrochlorothiazide
ramipril
sacubitril/valsartan
telmisartan
telmisartan/amlodipine besylate
telmisartan/hydrochlorothiazide
trandolapril
trandolapril/verapamil HCl
valsartan
valsartan/hydrochlorothiazide
<b>Azithromycin</b>
azithromycin
<b>Baricitinib</b>
baricitinib
<b>Chloroquine</b>
chloroquine phosphate

**Appendix O. List of Non-Proprietary Names of Medical Products Used to Define Potential COVID-19 Medications**

**Non-Proprietary Name**

**Corticosteroids (inhaled)**

BECLOMETHASONE DIPROP  
 BECLOMETHASONE DIPROP HFA BREATH ACT INH AER 40 MCG/ACT  
 BECLOMETHASONE DIPROPIONATE  
 BUDESONIDE  
 BUDESONIDE INHALATION SUSP 0.25 MG/2ML  
 BUDESONIDE INHALATION SUSP 0.5 MG/2ML  
 BUDESONIDE/FORMOTEROL FUMARATE  
 BUDESONIDE/FORMOTEROL FUMARATE DIHYD  
 BUDESONIDE/GLYCOPYRROLATE/FORMOTEROL FUMARATE  
 CICLESONIDE  
 FLUNISOLIDE  
 FLUNISOLIDE/MENTHOL  
 FLUTICASONE FUROATE  
 FLUTICASONE FUROATE/UMECLIDINIUM BROMIDE/VILANTEROL TRIFENAT  
 FLUTICASONE FUROATE/VILANTEROL  
 FLUTICASONE FUROATE/VILANTEROL TRIFENATATE  
 FLUTICASONE PROPIONATE  
 FLUTICASONE PROPIONATE HFA INHAL AER 220 MCG/ACT (250/VALVE)  
 FLUTICASONE PROPIONATE HFA INHAL AERO 44 MCG/ACT (50/VALVE)  
 FLUTICASONE PROPIONATE/SALMETEROL XINAFOATE  
 FLUTICASONE/SALMETEROL  
 FLUTICASONE/SALMETEROL INHAL  
 MOMETASONE FUROATE  
 MOMETASONE FUROATE/FORMOTEROL FUMARATE  
 TRIAMCINOLONE ACETONIDE

**Corticosteroids (other)**

BETAMETHASONE  
 BETAMETHASONE ACETATE AND SODIUM PHOS IN STERILE WATER/PF  
 BETAMETHASONE ACETATE/BETAMETHASONE SODIUM PHOSPHATE  
 BETAMETHASONE ACETATE/BETAMETHASONE SODIUM PHOSPHATE/WATER  
 BETAMETHASONE ACETATE/SOD PHOSPHATE  
 BETAMETHASONE SOD PHOS/ACE  
 BETAMETHASONE SOD PHOS/ACET INJ  
 BETAMETHASONE SOD PHOSPHATE/ACETATE  
 BETAMETHASONE SODIUM PHOSPH IN STERILE WATER FOR INJECTION  
 BETAMETHASONE SODIUM PHOSPHATE  
 BUPIVACAINE HCL/DEXAMETHASONE SODIUM PHOS IN STERILE WATER  
 CORTISONE ACETATE  
 DEXAMETH/BUPIV/EPI 0.01%/0.375%/1:200000 INJ  
 DEXAMETHASONE  
 DEXAMETHASONE ACETATE  
 DEXAMETHASONE ACETATE AND SODIUM PHOSPHATE IN STERILE WATER  
 DEXAMETHASONE ACETATE IN SODIUM CHLORIDE, ISO/OSMOTIC  
 DEXAMETHASONE ACETATE/SOD PHOSPHATE  
 DEXAMETHASONE PF  
 DEXAMETHASONE SOD PHOS PF  
 DEXAMETHASONE SOD PHOS PF INJ 10 MG/ML/BUPIV 0.25%  
 DEXAMETHASONE SOD PHOS/DEXTROSE IV  
 DEXAMETHASONE SOD PHOS/NACL IV  
 DEXAMETHASONE SOD PHOSPHATE  
 DEXAMETHASONE SOD PHOSPHATE PRESERVATIVE FREE

**Appendix O. List of Non-Proprietary Names of Medical Products Used to Define Potential COVID-19 Medications**
**Non-Proprietary Name**

DEXAMETHASONE SODIUM PHOSPHATE  
 DEXAMETHASONE SODIUM PHOSPHATE IN 0.9 % SODIUM CHLORIDE  
 DEXAMETHASONE SODIUM PHOSPHATE INJ 10 MG/ML  
 DEXAMETHASONE SODIUM PHOSPHATE IV  
 DEXAMETHASONE SODIUM PHOSPHATE PF INJ 10 MG/ML  
 DEXAMETHASONE SODIUM PHOSPHATE/LIDOCAINE HCL  
 DEXAMETHASONE SODIUM PHOSPHATE/PF  
 DEXAMETHASONE/SALIVA COLLECTION DEVICE  
 FLUDROCORTISONE ACETATE  
 HYDROCORTISONE  
 HYDROCORTISONE SOD SUCCINATE  
 HYDROCORTISONE SODIUM PHOSPHATE  
 HYDROCORTISONE SODIUM SUCCINATE  
 HYDROCORTISONE SODIUM SUCCINATE PF  
 HYDROCORTISONE SODIUM SUCCINATE/PF  
 METHYLPREDNISOLONE  
 METHYLPREDNISOLONE ACE 40 MG/ML/BUPIVACAINE  
 METHYLPREDNISOLONE ACE/LIDOCAINE  
 METHYLPREDNISOLONE ACETATE  
 METHYLPREDNISOLONE ACETATE IN SODIUM CHLORIDE,ISO/OSMOTIC/PF  
 METHYLPREDNISOLONE ACETATE IN STERILE WATER FOR INJECTION  
 METHYLPREDNISOLONE ACETATE W/ LIDOCAINE  
 METHYLPREDNISOLONE ACETATE/BUPIVACAINE HCL  
 METHYLPREDNISOLONE ACETATE/BUPIVACAINE HCL IN STERILE WATER  
 METHYLPREDNISOLONE INJ 40 MG/ML/LIDOCAINE INJ 1%  
 METHYLPREDNISOLONE SOD SUCC  
 METHYLPREDNISOLONE SODIUM SUCCINATE  
 METHYLPREDNISOLONE SODIUM SUCCINATE/PF  
 PREDNISOLONE  
 PREDNISOLONE ACETATE  
 PREDNISOLONE SOD PHOS ORALLY DISINTEGR  
 PREDNISOLONE SOD PHOSPH ORAL  
 PREDNISOLONE SOD PHOSPHATE  
 PREDNISOLONE SOD PHOSPHATE ORAL  
 PREDNISOLONE SODIUM PHOSPHATE  
 PREDNISOLONE SODIUM PHOSPHATE/PEAK FLOW METER  
 PREDNISOLONE SYRUP 15 MG/5ML (USP SOLUTION EQUIVALENT)  
 PREDNISON  
 PREDNISON ORAL  
 PREDNISON TAB 3 X 50 MG/DIPHENHYDRAMINE CAP 1 X 50 MG KIT  
 TRIAMCINOLONE  
 TRIAMCINOLONE ACETONIDE  
 TRIAMCINOLONE ACETONIDE IN 0.9 % SODIUM CHLORIDE  
 TRIAMCINOLONE ACETONIDE/0.9% SODIUM CHLORIDE/PF  
 TRIAMCINOLONE ACETONIDE/BUPIVACAINE/ IN 0.9% SODIUM CHLORIDE  
 TRIAMCINOLONE ACETONIDE/LIDOCAINE  
 TRIAMCINOLONE ACETONIDE/LIDOCAINE HCL  
 TRIAMCINOLONE DIACETATE  
 TRIAMCINOLONE DIACETATE IN 0.9 % SODIUM CHLORIDE  
 TRIAMCINOLONE DIACETATE IN 0.9 % SODIUM CHLORIDE/PF  
 TRIAMCINOLONE HEXACETONIDE  
 TRIAMCINOLONE INJ 10 MG/ML/LIDOCAINE HCL INJ 2%  
 TRIAMCINOLONE INJ 40 MG/ML/BUPIV 0.5%/LIDO 1%

**Appendix O. List of Non-Proprietary Names of Medical Products Used to Define Potential COVID-19 Medications**

**Non-Proprietary Name**

TRIAMCINOLONE INJ 40 MG/ML/BUPIV 0.5%/LIDO 2%  
 TRIAMCINOLONE INJ 40 MG/ML/LIDOCAINE HCL INJ 2%

**Hydroxychloroquine**

hydroxychloroquine sulfate

**Interferon-beta**

anakinra  
 canakinumab/PF  
 colchicine  
 eculizumab  
 interferon beta-1a  
 interferon beta-1a/albumin human  
 interferon beta-1b  
 peginterferon beta-1a

**Interleukin 6 inhibitors**

sarilumab  
 siltuximab  
 tocilizumab

**Lopinavir / Ritonavir**

lopinavir/ritonavir

**Methylprednisolone**

methylprednisolone acetate  
 methylprednisolone acetate in sodium chloride,iso-osmotic/PF  
 methylprednisolone acetate in sterile water for injection  
 methylprednisolone acetate/bupivacaine HCl in sterile water  
 methylprednisolone sodium succinate  
 methylprednisolone sodium succinate/PF

**Monoclonal antibody**

bamlanivimab  
 casirivimab (REGN10933)  
 etesevimab  
 imdevimab (REGN10987)  
 Sotrovimab

**NSAIDs (other)**

diclofenac potassium  
 diclofenac sodium  
 diclofenac sodium/misoprostol  
 diclofenac submicronized  
 etodolac  
 fenoprofen calcium  
 flurbiprofen  
 hydrocodone/ibuprofen  
 ibuprofen  
 ibuprofen/acetaminophen  
 ibuprofen/diphenhydramine citrate  
 ibuprofen/diphenhydramine HCl  
 ibuprofen/famotidine  
 ibuprofen/oxycodone HCl

**Appendix O. List of Non-Proprietary Names of Medical Products Used to Define Potential COVID-19 Medications****Non-Proprietary Name**

indomethacin  
indomethacin, submicronized  
ketoprofen  
ketorolac tromethamine  
meclofenamate sodium  
mefenamic acid  
meloxicam  
meloxicam, submicronized  
nabumetone  
naproxen sodium  
naproxen sodium/diphenhydramine HCl  
naproxen/esomeprazole magnesium  
oxaprozin  
piroxicam  
sulindac  
tolmetin sodium

**Prednisolone**

prednisolone  
prednisolone sodium phosphate

**Remdesivir**

remdesivir

**Appendix P. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Potential COVID-19 Medications**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Azithromycin</b>			
J0456	Injection, azithromycin, 500 mg	Procedure	HCPCS
Q0144	Azithromycin dihydrate, oral, capsules/powder, 1 g	Procedure	HCPCS
<b>Baricitinib</b>			
XW0DXM6	Introduction of Baricitinib into Mouth and Pharynx, External Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW0G7M6	Introduction of Baricitinib into Upper GI, Via Natural or Artificial Opening, New Technology Group 6	Procedure	ICD-10-PCS
XW0H7M6	Introduction of Baricitinib into Lower GI, Via Natural or Artificial Opening, New Technology Group 6	Procedure	ICD-10-PCS
<b>Chloroquine</b>			
J0390	Injection, chloroquine HCl, up to 250 mg	Procedure	HCPCS
<b>Corticosteroids (inhaled)</b>			
J7637	Dexamethasone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J7641	Flunisolide, inhalation solution, compounded product, administered through DME, unit dose, per mg	Procedure	HCPCS
J7622	Beclomethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7684	Triamcinolone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7626	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS
J7624	Betamethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7627	Budesonide, inhalation solution, compounded product, administered through DME, unit dose form, up to 0.5 mg	Procedure	HCPCS
J7633	Budesonide, inhalation solution, FDA-approved final product, noncompounded, administered through DME, concentrated form, per 0.25 mg	Procedure	HCPCS
J7634	Budesonide, inhalation solution, compounded product, administered through DME, concentrated form, per 0.25 mg	Procedure	HCPCS
J7638	Dexamethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7401	Mometasone furoate sinus implant, 10 mcg	Procedure	HCPCS
J7683	Triamcinolone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
<b>Corticosteroids (other)</b>			
J3302	Injection, triamcinolone diacetate, per 5 mg	Procedure	HCPCS
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS
J7684	Triamcinolone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J8540	Dexamethasone, oral, 0.25 mg	Procedure	HCPCS
J7624	Betamethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J3300	Injection, triamcinolone acetonide, preservative free, 1 mg	Procedure	HCPCS
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J2650	Injection, prednisolone acetate, up to 1 ml	Procedure	HCPCS



**Appendix P. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Potential COVID-19 Medications**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J7510	Prednisolone, oral, per 5 mg	Procedure	HCPCS
J0702	Injection, betamethasone acetate 3 mg and betamethasone sodium phosphate 3 mg	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J1100	Injection, dexamethasone sodium phosphate, 1 mg	Procedure	HCPCS
J1700	Injection, hydrocortisone acetate, up to 25 mg	Procedure	HCPCS
J1720	Injection, hydrocortisone sodium succinate, up to 100 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J1094	Injection, dexamethasone acetate, 1 mg	Procedure	HCPCS
J1710	Injection, hydrocortisone sodium phosphate, up to 50 mg	Procedure	HCPCS
J3301	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	Procedure	HCPCS
J7512	Prednisone, immediate release or delayed release, oral, 1 mg	Procedure	HCPCS
J7683	Triamcinolone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J3303	Injection, triamcinolone hexacetonide, per 5 mg	Procedure	HCPCS
<b>Interferon-beta</b>			
J0638	Injection, canakinumab, 1 mg	Procedure	HCPCS
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
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
J1300	Injection, eculizumab, 10 mg	Procedure	HCPCS
<b>Interleukin 6 inhibitors</b>			
J3262	Injection, tocilizumab, 1 mg	Procedure	HCPCS
J2860	Injection, siltuximab, 10mg	Procedure	HCPCS
XW033G5	Introduction of Sarilumab into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW043G5	Introduction of Sarilumab into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
<b>Methylprednisolone</b>			
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
<b>Monoclonal antibody</b>			
Q0245	Injection, bamlanivimab and etesevimab, 2100 mg	Procedure	HCPCS
M0245	Intravenous infusion, bamlanivimab and etesevimab, includes infusion and post administration monitoring	Procedure	HCPCS
M0246	Intravenous infusion, bamlanivimab and etesevimab, includes infusion and post administration monitoring in the home or residence	Procedure	HCPCS
Q0239	Injection, bamlanivimab-xxxx, 700 mg	Procedure	HCPCS

**Appendix P. List of International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) and Healthcare Common Procedure Coding System (HCPCS) Codes Used to Define Potential COVID-19 Medications**

Code	Description	Code	
		Category	Code Type
M0239	intravenous infusion, bamlanivimab-xxxx, includes infusion and post administration monitoring	Procedure	HCPCS
XW033F6	Introduction of Bamlanivimab Monoclonal Antibody into Peripheral Vein, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
XW043F6	Introduction of Bamlanivimab Monoclonal Antibody into Central Vein, Percutaneous Approach, New Technology Group 6	Procedure	ICD-10-PCS
Q0243	Injection, casirivimab and imdevimab, 2400 mg	Procedure	HCPCS
Q0244	Injection, casirivimab and imdevimab, 1200 mg	Procedure	HCPCS
M0243	intravenous infusion, casirivimab and imdevimab includes infusion and post administration monitoring	Procedure	HCPCS
M0244	Intravenous infusion or subcutaneous injection, casirivimab and imdevimab includes infusion or injection, and post administration monitoring in the home or residence	Procedure	HCPCS
XW033G6	Introduction of REGN-COV2 monoclonal antibody into peripheral vein, percutaneous approach, new technology group 6	Procedure	ICD-10-PCS
XW043G6	Introduction of REGN-COV2 monoclonal antibody into central vein, percutaneous approach, new technology group 6	Procedure	ICD-10-PCS
Q0247	Injection, sotrovimab, 500 mg	Procedure	HCPCS
M0247	Intravenous infusion, sotrovimab, includes infusion and post administration monitoring	Procedure	HCPCS
M0248	Intravenous infusion, sotrovimab, includes infusion and post administration monitoring in the home or residence	Procedure	HCPCS
<b>Remdesivir</b>			
XW033E5	Introduction of Remdesivir Anti-infective into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW043E5	Introduction of Remdesivir Anti-infective into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS

**Appendix Q. List of Generic and Brand Names of Medical Products Used to Define Vaccinations**

Generic Name	Brand Name
<b>Influenza A vaccination</b>	
flu vaccine quad 2018-2019(4 years and older)cell derived/PF	EZ Flu 2018-19(Flucelvax)(PF)
flu vaccine quad 2018-2019(4 years and older)cell derived/PF	Flucelvax Quad 2018-2019 (PF)
flu vaccine quad 2019-2020(4 years and older)cell derived/PF	Flucelvax Quad 2019-2020 (PF)
flu vaccine quad 2020-2021(4 years and older)cell derived/PF	Flucelvax Quad 2020-2021 (PF)
flu vaccine quadriv 2018-2019(4 years and older)cell derived	Flucelvax Quad 2018-2019
flu vaccine quadriv 2019-2020(4 years and older)cell derived	Flucelvax Quad 2019-2020
flu vaccine quadriv 2020-2021(4 years and older)cell derived	Flucelvax Quad 2020-2021
influenza vaccine quadrivalent live 2018-2019 (2 yrs-49 yrs)	Flumist Quad 2018-2019
influenza vaccine quadrivalent live 2019-2020 (2 yrs-49 yrs)	Flumist Quad 2019-2020
influenza vaccine quadrivalent live 2020-2021 (2 yrs-49 yrs)	Flumist Quad 2020-2021
influenza vaccine tvs 2019-20 (65 yr up)/adjuvant MF59C.1/PF	Fluad 2019-2020 (65 yr up)(PF)
influenza virus vacc quad 2020 south hem (6 mos and up)	Fluzone Quad Southern Hem 2020
influenza virus vacc quad 2020 south hem (6 mos and up)/PF	Fluzone Quad South Hem2020(PF)
influenza virus vacc quad 2021 south hem (6 months and up)	Fluzone Quad Southern Hem 2021
influenza virus vacc quad 2021 south hem (6 mos and up)/PF	Fluzone Quad South Hem2021(PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Afluria Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Fluarix Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2018-2019(6 mos and up)/PF	Flulaval Quad 2018-2019 (PF)
influenza virus vaccine quadrival 2019-20 (6 mos-35 mos)/PF	Afluria Qd 2019-20(6-35mo)(PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Fluarix Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Flulaval Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2019-2020(6 mos and up)/PF	Fluzone Quad 2019-2020 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Fluarix Quad 2020-2021 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Flulaval Quad 2020-2021 (PF)
influenza virus vaccine quadrival 2020-2021(6 mos and up)/PF	Fluzone Quad 2020-2021 (PF)
influenza virus vaccine quadrival split 2020-21(65 yr up)/PF	Fluzone HighDose Quad 20-21 PF
influenza virus vaccine quadrivalent 2018-19 (36 mos up)/PF	Fluzone Quad 2018-2019 (PF)
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Afluria Quad 2018-2019
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Flulaval Quad 2018-2019
influenza virus vaccine quadrivalent 2018-19 (6 mos and up)	Fluzone Quad 2018-2019
influenza virus vaccine quadrivalent 2019-20 (36 mos up)/PF	Afluria Qd 2019-20(3yr up)(PF)
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Afluria Quad 2019-20(6mo up)
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Flulaval Quad 2019-2020
influenza virus vaccine quadrivalent 2019-20 (6 mos and up)	Fluzone Quad 2019-2020
influenza virus vaccine quadrivalent 2020-21 (36 mos up)/PF	Afluria Qd 2020-21(3yr up)(PF)
influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	Afluria Quad 2020-2021(6mo up)
influenza virus vaccine quadrivalent 2020-21 (6 mos and up)	Fluzone Quad 2020-2021
influenza virus vaccine qv 2018-19(18 yrs and older)rcmb/PF	Flublok Quad 2018-2019 (PF)
influenza virus vaccine qv 2019-20(18 yrs and older)rcmb/PF	Flublok Quad 2019-2020 (PF)
influenza virus vaccine qv 2020-21(18 yrs and older)rcmb/PF	Flublok Quad 2020-2021 (PF)
influenza virus vaccine trival split 2018-2019(65 yr up)/PF	Fluzone High-Dose 2018-19 (PF)
influenza virus vaccine trivalent 2018-19 (6 mos and older)	Afluria 2018-2019
influenza virus vaccine tvs 2018-2019(6 months and older)/PF	Afluria 2018-2019 (PF)
<b>Pertussis vaccination</b>	
diphtheria,pertussis(acellular),tetanus vaccine	Adacel(Tdap Adolesn/Adult)(PF)
diphtheria,pertussis(acellular),tetanus vaccine	Boostrix Tdap
<b>Pneumococcal vaccination</b>	
pneumococcal 13-valent conjugate vaccine (Diphtheria crm)/PF	Pprevnar 13 (PF)
pneumococcal 23-valent polysaccharide vaccine	Pneumovax 23
	Pprevnar20

**Appendix R. List of Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Vaccinations**

Code	Description	Code	
		Category	Code Type
<b>Influenza A vaccination</b>			
90630	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, for intradermal use	Procedure	CPT-4
90653	Influenza vaccine, inactivated (IIV), subunit, adjuvanted, for intramuscular use	Procedure	CPT-4
90654	Influenza virus vaccine, trivalent (IIV3), split virus, preservative-free, for intradermal use	Procedure	CPT-4
90656	Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90658	Influenza virus vaccine, trivalent (IIV3), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90659	Influenza virus vaccine, whole virus, for intramuscular or jet injection use	Procedure	CPT-4
90660	Influenza virus vaccine, trivalent, live (LAIV3), for intranasal use	Procedure	CPT-4
90661	Influenza virus vaccine, trivalent (cclIIV3), derived from cell cultures, subunit, preservative and antibiotic free. 0.5 mL dosage. for intramuscular use	Procedure	CPT-4
90662	Influenza virus vaccine (IIV), split virus, preservative free, enhanced immunogenicity via increased antigen content. for intramuscular use	Procedure	CPT-4
90663	Influenza virus vaccine, pandemic formulation, H1N1	Procedure	CPT-4
90664	Influenza virus vaccine, live (LAIV), pandemic formulation, for intranasal use	Procedure	CPT-4
90666	Influenza virus vaccine (IIV), pandemic formulation, split virus, preservative free, for intramuscular use	Procedure	CPT-4
90667	Influenza virus vaccine (IIV), pandemic formulation, split virus, adjuvanted, for intramuscular use	Procedure	CPT-4
90668	Influenza virus vaccine (IIV), pandemic formulation, split virus, for intramuscular use	Procedure	CPT-4
90672	Influenza virus vaccine, quadrivalent, live (LAIV4), for intranasal use	Procedure	CPT-4
90673	Influenza virus vaccine, trivalent (RIV3), derived from recombinant DNA, hemagglutinin (HA) protein only. preservative and antibiotic free. for intramuscular use	Procedure	CPT-4
90674	Influenza virus vaccine, quadrivalent (cclIIV4), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90686	Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90688	Influenza virus vaccine, quadrivalent (IIV4), split virus, 0.5 mL dosage, for intramuscular use	Procedure	CPT-4
90682	Influenza virus vaccine, quadrivalent (RIV4), derived from recombinant DNA, hemagglutinin (HA) protein only. preservative and antibiotic free. for intramuscular use	Procedure	CPT-4
90756	Influenza virus vaccine, quadrivalent (cclIIV4), derived from cell cultures, subunit, antibiotic free. 0.5mL dosage. for intramuscular use	Procedure	CPT-4
Q2033	Influenza vaccine, recombinant hemagglutinin antigens, for intramuscular use (Flublok)	Procedure	HCPCS
Q2034	Influenza virus vaccine, split virus, for intramuscular use (Agriflu)	Procedure	HCPCS
Q2035	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (AFLURIA)	Procedure	HCPCS
Q2036	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLULAVAL)	Procedure	HCPCS
Q2037	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (FLUVIRIN)	Procedure	HCPCS
Q2038	Influenza virus vaccine, split virus, when administered to individuals 3 years of age and older, for intramuscular use (Fluzone)	Procedure	HCPCS
4037F	Influenza immunization ordered or administered (COPD, PV, CKD, ESRD)(IBD)	Procedure	CPT Category II
4274F	Influenza immunization administered or previously received (HIV) (P-ESRD)	Procedure	CPT Category II
G0008	Administration of influenza virus vaccine	Procedure	HCPCS
G8482	Influenza immunization administered or previously received	Procedure	HCPCS
G8636	Influenza immunization administered or previously received	Procedure	HCPCS

**Appendix R. List of Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Category II (CPT Category II), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Vaccinations**

Code	Description	Code	
		Category	Code Type
G9141	Influenza A (H1N1) immunization administration (includes the physician counseling the patient/family)	Procedure	HCPCS
G9142	Influenza A (H1N1) vaccine, any route of administration	Procedure	HCPCS
Q0034	Administration of influenza vaccine to Medicare beneficiaries by participating demonstration sites	Procedure	HCPCS
Q2039	Influenza virus vaccine, not otherwise specified	Procedure	HCPCS
G8639	Influenza immunization was administered or previously received	Procedure	HCPCS
G8108	Patient documented to have received influenza vaccination during influenza season	Procedure	HCPCS
<b>Pertussis vaccination</b>			
90697	Diphtheria, tetanus toxoids, acellular pertussis vaccine, inactivated poliovirus vaccine, Haemophilus influenzae type b PRP-OMP conjugate vaccine, and hepatitis B vaccine (DTaP-IPV-Hib-HenB), for intramuscular use	Procedure	CPT-4
90698	Diphtheria, tetanus toxoids, acellular pertussis vaccine, Haemophilus influenzae type b, and inactivated poliovirus vaccine, (DTaP-IPV/Hib), for intramuscular use	Procedure	CPT-4
90715	Tetanus, diphtheria toxoids and acellular pertussis vaccine (Tdap), when administered to individuals 7 years or older, for intramuscular use	Procedure	CPT-4
90723	Diphtheria, tetanus toxoids, acellular pertussis vaccine, hepatitis B, and inactivated poliovirus vaccine (DTaP-HepB-IPV), for intramuscular use	Procedure	CPT-4
<b>Pneumococcal vaccination</b>			
90669	Pneumococcal conjugate vaccine, 7 valent (PCV7), for intramuscular use	Procedure	CPT-4
90732	Pneumococcal polysaccharide vaccine, 23-valent (PPSV23), adult or immunosuppressed patient dosage, when administered to individuals 2 years or older, for subcutaneous or intramuscular use	Procedure	CPT-4
90670	Pneumococcal conjugate vaccine, 13 valent (PCV13), for intramuscular use	Procedure	CPT-4
G0009	Administration of pneumococcal vaccine	Procedure	HCPCS
G8864	Pneumococcal vaccine administered or previously received	Procedure	HCPCS
4040F	Pneumococcal vaccine administered or previously received (COPD) (PV), (IBD)	Procedure	CPT
			Category II

### Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching

The Center for Drug Evaluation and Research (CDER) has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool v12.0.0 to characterize drug utilization among A) pregnancies with COVID-19 linked to a live-born infant and B) 1:1 PS-matched matched pregnancies without COVID-19 linked to a live-born infant, to characterize COVID-19 severity among pregnancies with COVID-19, and to evaluate the risk of neonatal outcomes among the matched mother-infant pairs.

**Query period binding Adate for live birth delivery:** 01/01/2020 - most recent available data per DP Phase B ETL

**Coverage requirement:** Medical & Drug Coverage

**Pre-index enrollment requirement:** 484 days prior to live birth delivery date:

(183 days pre-pregnancy period + 301 days longest possible pregnancy duration)

**Post-index enrollment requirement:** 90 days

**Total enrollment requirement:** 574 days

**Enrollment gap:** 45 days

**Sex:** Female only

**Age groups:** 12-24, 25-39, 40-54 years

#### COVID-19 in first trimester

Propensity Score Estimate Group	Matched analysis #1: First trimester COVID-19 evaluation Neonatal outcome: Low birth weight		Matched analysis #2: First trimester COVID-19 evaluation Neonatal outcome: Small for gestational age	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>"Exposure"</b></p> <p><b>Prevalent exposure/comparator</b></p> <p><b>Index date to define "exposure" evaluation window</b></p> <p><b>Evaluation window</b></p> <p><b>Cohort entry and care setting</b></p> <p><b>Cohort definition</b></p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Estimated pregnancy start date</p> <p>(0, +90) 1st trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Cohort includes first valid index COVID-19 date during first trimester</p>	<p>Unexposed (no COVID-19 diagnosis or positive lab result)</p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Estimated pregnancy start date</p> <p>(0, +90) 1st trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Cohort includes first valid index COVID-19 date during first trimester</p>	<p>Unexposed (no COVID-19 diagnosis or positive lab result)</p>
<p><b>Pre-Existing Condition</b></p> <p><b>Include/Exclude</b></p> <p><b>Index date to define inclusion/exclusion evaluation window</b></p> <p><b>Evaluation window (days)</b></p> <p><b>Cohort entry exclusion and care setting</b></p> <p><b>Index date to define criteria</b></p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Inclusion</p> <p>Estimated pregnancy start date</p> <p>(0, +90) 1st trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Inclusion</p> <p>Estimated pregnancy start date</p> <p>(0, +90) 1st trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result</p> <p>Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>
<p><b>Medical Product Exposures</b></p> <p><b>Medical products of interest</b></p>	<p>See Appendix U</p>		<p>See Appendix U</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Index date to define drug exposure evaluation window	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, +90)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, +90)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19
Evaluation window #1 Evaluation window #2 Evaluation window #3 Evaluation window #4	Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date		Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b> Health outcome of interest Care setting Washout (days) Blackout period Claims to look for outcomes Outcome evaluation index date Outcome evaluation window	Low birth weight Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)		Small for gestational age Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)	
<b>Propensity Score Matching</b> Covariates to be included in model Index date for demographic assessment Matching ratio Matching caliper settings Temporal matching factor Categorical pregnancy duration matching factor Categorical age matching factor	See Appendix T Delivery date 1:1 0.05 Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19		See Appendix T Delivery date 1:1 0.05 Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19	



**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Pregnancy duration categories	See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)		See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)	
Age categories	A) 12-24; B) 25-39; C) 40-54 years old		A) 12-24; B) 25-39; C) 40-54 years old	
<b>Subgroup Analyses</b>				
Stratifying variable	N/A		N/A	
Re-matching	N/A		N/A	
Analysis type	Unconditional and Conditional		Unconditional and Conditional	
Effect estimation	Risk-set Level		Risk-set Level	
<b>Propensity Score Estimate Group</b>	<b>Matched analysis #3: First trimester COVID-19 evaluation Neonatal outcome: Microcephaly</b>		<b>Matched analysis #4: First trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (1 occurrence)</b>	
<b>Cohorts</b>	<b>Pregnant patients with COVID-19</b>	<b>Pregnant patients without COVID-19</b>	<b>Pregnant patients with COVID-19</b>	<b>Pregnant patients without COVID-19</b>
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No
<b>"Exposure"</b>				
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date	
Evaluation window	(0, +90) 1st trimester		(0, +90) 1st trimester	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Cohort entry and care setting</b>	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i>		U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i>	
<b>Cohort definition</b>	Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Cohort includes first valid index COVID-19 date during first trimester		Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Cohort includes first valid index COVID-19 date during first trimester	
<b>Pre-Existing Condition</b>				
<b>Include/Exclude</b>	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion
<b>Index date to define inclusion/exclusion evaluation window</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Evaluation window (days)</b>	(0, +90) 1st trimester	(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy	(0, +90) 1st trimester	(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy
<b>Cohort entry exclusion and care setting</b>	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b>				
<b>Medical products of interest</b>	See Appendix U		See Appendix U	
<b>Index date to define drug exposure evaluation window</b>	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, +90)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, +90)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19
<b>Evaluation window #1</b>	Exposed (-30, -1) relative to anchoring COVID-19 date		Exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #2</b>	NOT exposed (-30, -1) relative to anchoring COVID-19 date		NOT exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #3</b>	Exposed (0, +30) relative to anchoring COVID-19 date		Exposed (0, +30) relative to anchoring COVID-19 date	
<b>Evaluation window #4</b>	NOT exposed (0, +30) relative to anchoring COVID-19 date		NOT exposed (0, +30) relative to anchoring COVID-19 date	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Neonatal Event Outcome</b> <b>Health outcome of interest</b> <b>Care setting</b> <b>Washout (days)</b> <b>Blackout period</b> <b>Claims to look for outcomes</b> <b>Outcome evaluation index date</b> <b>Outcome evaluation window</b>	<p>Microcephaly  Any care setting  0  N/A  Infant claims only  Live birth delivery admission date  (0, +90)</p>	<p>Major congenital malformation per CDC SET-NET definition  Any care setting  0  N/A  Infant claims only  Live birth delivery admission date  (0, +90)</p>
<b>Propensity Score Matching</b> <b>Covariates to be included in model</b> <b>Index date for demographic assessment</b> <b>Matching ratio</b> <b>Matching caliper settings</b>  <b>Temporal matching factor</b>  <b>Categorical pregnancy duration matching factor</b>  <b>Categorical age matching factor</b>  <b>Pregnancy duration categories</b>  <b>Age categories</b>	<p>See Appendix T  Delivery date  1:1  0.05   Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19  <i>and</i>  Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19  <i>and</i>  Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19   See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)   A) 12-24; B) 25-39; C) 40-54 years old</p>	<p>See Appendix T  Delivery date  1:1  0.05   Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19  <i>and</i>  Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19  <i>and</i>  Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19   See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)   A) 12-24; B) 25-39; C) 40-54 years old</p>
<b>Subgroup Analyses</b> <b>Stratifying variable</b> <b>Re-matching</b>	<p>N/A  N/A</p>	<p>N/A  N/A</p>

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Analysis type</b>	Unconditional and Conditional	Unconditional and Conditional
<b>Effect estimation</b>	Risk-set Level	Risk-set Level

Propensity Score Estimate Group	Matched analysis #5: First trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (2 occurrences)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>		
<b>Pregnancy Episode Creation</b>		
<b>Pre-pregnancy period</b>	183	183
<b>Delivery washout</b>	301	301
<b>Delivery washout definition</b>	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
<b>Pre/postterm evaluation window</b>	7	7
<b>Pregnancy duration in absence of pre/postterm codes</b>	273	273
<b>Mother-infant linkage requirement</b>	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
<b>Allowed # of days between infant birth date and delivery date</b>	Any	Any
<b>Allowed gap between infant delivery and enrollment</b>	Any	Any
<b>Non-pregnant cohort?</b>	No	No
<b>"Exposure"</b>		
<b>Prevalent exposure/comparator</b>	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
<b>Index date to define "exposure" evaluation window</b>	Estimated pregnancy start date	
<b>Evaluation window</b>	(0, +90) 1st trimester	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Cohort entry and care setting</b></p>	<p>U07.1 diagnosis (any care setting)</p> <p style="text-align: center;"><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p style="text-align: center;"><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p>		
<p><b>Cohort definition</b></p>	<p>Cohort includes first valid index COVID-19 date during first trimester</p>		
<p><b>Pre-Existing Condition</b></p>	<p>COVID-19 diagnosis or positive lab result</p> <p style="text-align: center;">Inclusion</p> <p>Estimated pregnancy start date</p> <p style="text-align: center;">(0, +90) 1st trimester</p>	<p>COVID-19 diagnosis or positive lab result</p> <p style="text-align: center;">Exclusion</p> <p>Estimated pregnancy start date</p> <p style="text-align: center;">(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p>	
<p><b>Include/Exclude</b></p> <p><b>Index date to define inclusion/exclusion evaluation window</b></p> <p><b>Evaluation window (days)</b></p> <p><b>Cohort entry exclusion and care setting</b></p>	<p>U07.1 diagnosis (any care setting)</p> <p style="text-align: center;"><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p style="text-align: center;"><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p>	<p>U07.1 diagnosis (any care setting)</p> <p style="text-align: center;"><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p style="text-align: center;"><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p>	
<p><b>Index date to define criteria</b></p>	<p>Estimated pregnancy start date</p>	<p>Estimated pregnancy start date</p>	
<p><b>Medical Product Exposures</b></p> <p><b>Medical products of interest</b></p>	<p style="text-align: center;">See Appendix U</p>		
<p><b>Index date to define drug exposure evaluation window</b></p>	<p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, +90)</p>	<p>Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p>	
<p><b>Evaluation window #1</b></p> <p><b>Evaluation window #2</b></p> <p><b>Evaluation window #3</b></p> <p><b>Evaluation window #4</b></p>	<p>Exposed (-30, -1) relative to anchoring COVID-19 date</p> <p>NOT exposed (-30, -1) relative to anchoring COVID-19 date</p>	<p>Exposed (0, +30) relative to anchoring COVID-19 date</p> <p>NOT exposed (0, +30) relative to anchoring COVID-19 date</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Neonatal Event Outcome</b></p> <p><b>Health outcome of interest</b></p> <p><b>Care setting</b></p> <p><b>Washout (days)</b></p> <p><b>Blackout period</b></p> <p><b>Claims to look for outcomes</b></p> <p><b>Outcome evaluation index date</b></p> <p><b>Outcome evaluation window</b></p>	<p>2 occurrences of major congenital malformation per CDC SET-NET definition</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date</p> <p>(0, +90)</p>	
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**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p> <p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	COVID-19 in second trimester			
	Matched analysis #6: Second trimester COVID-19 evaluation Neonatal outcome: Low birth weight		Matched analysis #7: Second trimester COVID-19 evaluation Neonatal outcome: Small for gestational age	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
<b>Pre-pregnancy period</b>	183	183	183	183
<b>Delivery washout</b>	301	301	301	301
<b>Delivery washout definition</b>	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
<b>Pre/postterm evaluation window</b>	7	7	7	7
<b>Pregnancy duration in absence of pre/postterm codes</b>	273	273	273	273
<b>Mother-infant linkage requirement</b>	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
<b>Allowed # of days between infant birth date and delivery date</b>	Any	Any	Any	Any
<b>Allowed gap between infant delivery and enrollment</b>	Any	Any	Any	Any
<b>Non-pregnant cohort?</b>	No	No	No	No
<b>"Exposure"</b>				
<b>Prevalent exposure/comparator</b>	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
<b>Index date to define "exposure" evaluation window</b>	Estimated pregnancy start date		Estimated pregnancy start date	
<b>Evaluation window</b>	(+91, +180) 2nd trimester		(+91, +180) 2nd trimester	
<b>Cohort entry and care setting</b>	U07.1 diagnosis (any care setting)  or B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  or Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		U07.1 diagnosis (any care setting)  or B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  or Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	



**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Cohort definition	Cohort includes first valid index COVID-19 date during second trimester		Cohort includes first valid index COVID-19 date during second trimester	
<b>Pre-Existing Condition</b>  <b>Include/Exclude</b> <b>Index date to define inclusion/exclusion evaluation window</b> <b>Evaluation window (days)</b>  <b>Cohort entry exclusion and care setting</b>	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+91, +180) 2nd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+91, +180) 2nd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b> <b>Medical products of interest</b>  <b>Index date to define drug exposure evaluation window</b>  <b>Evaluation window #1</b> <b>Evaluation window #2</b> <b>Evaluation window #3</b> <b>Evaluation window #4</b>	See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+91, +180)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date		See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+91, +180)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b> <b>Health outcome of interest</b> <b>Care setting</b> <b>Washout (days)</b> <b>Blackout period</b> <b>Claims to look for outcomes</b> <b>Outcome evaluation index date</b> <b>Outcome evaluation window</b>	Low birth weight Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)		Small for gestational age Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)	

Propensity Score Matching

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Covariates to be included in model</b> <b>Index date for demographic assessment</b> <b>Matching ratio</b> <b>Matching caliper settings</b>	See Appendix T Delivery date 1:1 0.05		See Appendix T Delivery date 1:1 0.05	
<b>Temporal matching factor</b>  <b>Categorical pregnancy duration matching factor</b>  <b>Categorical age matching factor</b>  <b>Pregnancy duration categories</b>  <b>Age categories</b>	Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19  See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)  A) 12-24; B) 25-39; C) 40-54 years old		Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19  See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)  A) 12-24; B) 25-39; C) 40-54 years old	
<b>Subgroup Analyses</b> <b>Stratifying variable</b> <b>Re-matching</b> <b>Analysis type</b> <b>Effect estimation</b>	N/A N/A Unconditional and Conditional Risk-set Level		N/A N/A Unconditional and Conditional Risk-set Level	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #8: Second trimester COVID-19 evaluation Neonatal outcome: Microcephaly		Matched analysis #9: Second trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (1 occurrence)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No
<b>"Exposure"</b>				
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date	
Evaluation window	(+91, +180) 2nd trimester		(+91, +180) 2nd trimester	
Cohort entry and care setting	U07.1 diagnosis (any care setting) <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		U07.1 diagnosis (any care setting) <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	
<b>Cohort definition</b>	Cohort includes first valid index COVID-19 date during second trimester		Cohort includes first valid index COVID-19 date during second trimester	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Pre-Existing Condition</b>  <b>Include/Exclude</b> <b>Index date to define inclusion/exclusion evaluation window</b> <b>Evaluation window (days)</b>  <b>Cohort entry exclusion and care setting</b>         <b>Index date to define criteria</b>	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+91, +180) 2nd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Estimated pregnancy start date	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Estimated pregnancy start date	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+91, +180) 2nd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Estimated pregnancy start date	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting  Estimated pregnancy start date
<b>Medical Product Exposures</b> <b>Medical products of interest</b>  <b>Index date to define drug exposure evaluation window</b>  <b>Evaluation window #1</b> <b>Evaluation window #2</b> <b>Evaluation window #3</b> <b>Evaluation window #4</b>	See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+91, +180)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date		See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+91, +180)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b> <b>Health outcome of interest</b> <b>Care setting</b> <b>Washout (days)</b> <b>Blackout period</b> <b>Claims to look for outcomes</b> <b>Outcome evaluation index date</b> <b>Outcome evaluation window</b>	Microcephaly Any care setting 0 N/A Infant claims only Live birth delivery admission date (0, +90)		Major congenital malformation per CDC SET-NET definition Any care setting 0 N/A Infant claims only Live birth delivery admission date (0, +90)	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b>  <b>Covariates to be included in model</b>  <b>Index date for demographic assessment</b>  <b>Matching ratio</b>  <b>Matching caliper settings</b></p>	<p>See Appendix T          Delivery date          1:1          0.05</p>		<p>See Appendix T          Delivery date          1:1          0.05</p>	
<p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>		<p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19  <i>and</i>          Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19  <i>and</i>          Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19          See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)          A) 12-24; B) 25-39; C) 40-54 years old</p>		<p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19  <i>and</i>          Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19  <i>and</i>          Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19          See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)          A) 12-24; B) 25-39; C) 40-54 years old</p>
<p><b>Subgroup Analyses</b>  <b>Stratifying variable</b>  <b>Re-matching</b>  <b>Analysis type</b>  <b>Effect estimation</b></p>	<p>N/A          N/A          Unconditional and Conditional          Risk-set Level</p>		<p>N/A          N/A          Unconditional and Conditional          Risk-set Level</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #10: Second trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (2 occurrences)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>		
<b>Pregnancy Episode Creation</b>		
Pre-pregnancy period	183	183
Delivery washout	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7
Pregnancy duration in absence of pre/postterm codes	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any
Non-pregnant cohort?	No	No
<b>"Exposure"</b>		
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date	
Evaluation window	(+91, +180) 2nd trimester	
Cohort entry and care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	
<b>Cohort definition</b>	Cohort includes first valid index COVID-19 date during second trimester	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Pre-Existing Condition</b></p> <p><b>Include/Exclude</b></p> <p><b>Index date to define inclusion/exclusion evaluation window</b></p> <p><b>Evaluation window (days)</b></p> <p><b>Cohort entry exclusion and care setting</b></p> <p><b>Index date to define criteria</b></p>	<p>COVID-19 diagnosis or positive lab result Inclusion</p> <p>Estimated pregnancy start date</p> <p>(+91, +180) 2nd trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	
<p><b>Medical Product Exposures</b></p> <p><b>Medical products of interest</b></p> <p><b>Index date to define drug exposure evaluation window</b></p> <p><b>Evaluation window #1</b></p> <p><b>Evaluation window #2</b></p> <p><b>Evaluation window #3</b></p> <p><b>Evaluation window #4</b></p>	<p style="text-align: center;">See Appendix U</p> <p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+91, +180)   Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p> <p>Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date</p>		
<p><b>Neonatal Event Outcome</b></p> <p><b>Health outcome of interest</b></p> <p><b>Care setting</b></p> <p><b>Washout (days)</b></p> <p><b>Blackout period</b></p> <p><b>Claims to look for outcomes</b></p> <p><b>Outcome evaluation index date</b></p> <p><b>Outcome evaluation window</b></p>	<p>2 occurrences of major congenital malformation per CDC SET-NET definition</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date (0, +90)</p>		
<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p>	<p style="text-align: center;">See Appendix T</p> <p>Delivery date</p> <p>1:1</p>		

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	



**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

COVID-19 in third trimester				
Propensity Score Estimate Group	Matched analysis #11: Third trimester COVID-19 evaluation Neonatal outcome: Low birth weight		Matched analysis #12: Third trimester COVID-19 evaluation Neonatal outcome: Small for gestational age	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No
<b>"Exposure"</b>				
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date	
Evaluation window	(+181, delivery date) 3rd trimester		(+181, delivery date) 3rd trimester	
Cohort entry and care setting	U07.1 diagnosis (any care setting)  or B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  or Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		U07.1 diagnosis (any care setting)  or B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  or Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Cohort definition	Cohort includes first valid index COVID-19 date during third trimester		Cohort includes first valid index COVID-19 date during third trimester	
<b>Pre-Existing Condition</b>  <b>Include/Exclude</b> <b>Index date to define inclusion/exclusion evaluation window</b> <b>Evaluation window (days)</b>  <b>Cohort entry exclusion and care setting</b>	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+181, delivery date) 3rd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Inclusion Estimated pregnancy start date  (+181, delivery date) 3rd trimester  U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	COVID-19 diagnosis or positive lab result Exclusion Estimated pregnancy start date  (-183, delivery date) 183 days pre-pregnancy period or entire pregnancy U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b>  <b>Medical products of interest</b>  <b>Index date to define drug exposure evaluation window</b>  <b>Evaluation window #1</b> <b>Evaluation window #2</b> <b>Evaluation window #3</b> <b>Evaluation window #4</b>	See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+181, delivery date)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date		See Appendix U  Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+181, delivery date)  Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b>  <b>Health outcome of interest</b> <b>Care setting</b> <b>Washout (days)</b> <b>Blackout period</b> <b>Claims to look for outcomes</b> <b>Outcome evaluation index date</b> <b>Outcome evaluation window</b>	Low birth weight Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)		Small for gestational age Any care setting 0 N/A Mother and infant claims Live birth delivery admission date (0, +7)	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p> <p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #13: Third trimester COVID-19 evaluation Neonatal outcome: Microcephaly		Matched analysis #14: Third trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (1 occurrence)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No
<b>"Exposure"</b>				
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date	
Evaluation window	(+181, delivery date) 3rd trimester		(+181, delivery date) 3rd trimester	
Cohort entry and care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Cohort definition</b></p> <p><b>Pre-Existing Condition</b></p> <p><b>Include/Exclude</b></p> <p><b>Index date to define inclusion/exclusion evaluation window</b></p> <p><b>Evaluation window (days)</b></p> <p><b>Cohort entry exclusion and care setting</b></p> <p><b>Index date to define criteria</b></p>	<p>Cohort includes first valid index COVID-19 date during third trimester</p> <p>COVID-19 diagnosis or positive lab result Inclusion</p> <p>Estimated pregnancy start date</p> <p>(+181, delivery date) 3rd trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>Cohort includes first valid index COVID-19 date during third trimester</p> <p>COVID-19 diagnosis or positive lab result Inclusion</p> <p>Estimated pregnancy start date</p> <p>(+181, delivery date) 3rd trimester</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>
<p><b>Medical Product Exposures</b></p> <p><b>Medical products of interest</b></p> <p><b>Index date to define drug exposure evaluation window</b></p> <p><b>Evaluation window #1</b></p> <p><b>Evaluation window #2</b></p> <p><b>Evaluation window #3</b></p> <p><b>Evaluation window #4</b></p>	<p>See Appendix U</p> <p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+181, delivery date)</p> <p>Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p> <p>Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date</p>		<p>See Appendix U</p> <p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+181, delivery date)</p> <p>Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p> <p>Exposed (-30, -1) relative to anchoring COVID-19 date NOT exposed (-30, -1) relative to anchoring COVID-19 date Exposed (0, +30) relative to anchoring COVID-19 date NOT exposed (0, +30) relative to anchoring COVID-19 date</p>	
<p><b>Neonatal Event Outcome</b></p> <p><b>Health outcome of interest</b></p> <p><b>Care setting</b></p> <p><b>Washout (days)</b></p> <p><b>Blackout period</b></p> <p><b>Claims to look for outcomes</b></p> <p><b>Outcome evaluation index date</b></p> <p><b>Outcome evaluation window</b></p>	<p>Microcephaly</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date</p> <p>(0, +90)</p>		<p>Major congenital malformation per CDC SET-NET definition</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date</p> <p>(0, +90)</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p> <p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #15: Third trimester COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (2 occurrences)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>		
<b>Pregnancy Episode Creation</b>		
Pre-pregnancy period	183	183
Delivery washout	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7
<b>Pregnancy duration in absence of pre/postterm codes</b>	273	273
<b>Mother-infant linkage requirement</b>	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
<b>Allowed # of days between infant birth date and delivery date</b>	Any	Any
<b>Allowed gap between infant delivery and enrollment</b>	Any	Any
<b>Non-pregnant cohort?</b>	No	No
<b>"Exposure"</b>		
<b>Prevalent exposure/comparator</b>	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
<b>Index date to define "exposure" evaluation window</b>	Estimated pregnancy start date	
<b>Evaluation window</b>	(+181, delivery date) 3rd trimester	
<b>Cohort entry and care setting</b>	U07.1 diagnosis (any care setting)  or B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  or Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Cohort definition</b>	Cohort includes first valid index COVID-19 date during third trimester	
<b>Pre-Existing Condition</b>	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion
<b>Include/Exclude</b>		
<b>Index date to define inclusion/exclusion evaluation window</b>	Estimated pregnancy start date	Estimated pregnancy start date
<b>Evaluation window (days)</b>	(+181, delivery date) 3rd trimester	(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy
<b>Cohort entry exclusion and care setting</b>	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b>	See Appendix U	
<b>Medical products of interest</b>		
<b>Index date to define drug exposure evaluation window</b>	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (+181, delivery date)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19
<b>Evaluation window #1</b>	Exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #2</b>	NOT exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #3</b>	Exposed (0, +30) relative to anchoring COVID-19 date	
<b>Evaluation window #4</b>	NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b>	2 occurrences of major congenital malformation per CDC SET-NET definition	
<b>Health outcome of interest</b>	Any care setting	
<b>Care setting</b>	0	
<b>Washout (days)</b>	N/A	
<b>Blackout period</b>	Infant claims only	
<b>Claims to look for outcomes</b>	Live birth delivery admission date	
<b>Outcome evaluation index date</b>	(0, +90)	
<b>Outcome evaluation window</b>		



**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p> <p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	COVID-19 any time during pregnancy				
	Matched analysis #16: Total pregnancy COVID-19 evaluation Neonatal outcome: Low birth weight		Matched analysis #17: Total pregnancy COVID-19 evaluation Neonatal outcome: Small for gestational age		
	Cohorts	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Pregnancy Episode Creation</b>					
Pre-pregnancy period	183	183	183	183	
Delivery washout	301	301	301	301	
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7	
Pregnancy duration in absence of pre/postterm codes	273	273	273	273	
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No	No
<b>"Exposure"</b>					
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date		
Evaluation window	(0, delivery date)		(0, delivery date)		
Cohort entry and care setting	Any time during pregnancy U07.1 diagnosis (any care setting)		Any time during pregnancy U07.1 diagnosis (any care setting)		
	<i>or</i>		<i>or</i>		

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

	B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	
<b>Cohort definition</b>	Cohort includes first valid index COVID-19 date during pregnancy		Cohort includes first valid index COVID-19 date during pregnancy	
<b>Pre-Existing Condition</b>	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion
<b>Include/Exclude</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Index date to define inclusion/exclusion evaluation window</b>	(0, delivery date)	(-183, delivery date)	(0, delivery date)	(-183, delivery date)
<b>Evaluation window (days)</b>	Any time during pregnancy	183 days pre-pregnancy period or entire pregnancy	Any time during pregnancy	183 days pre-pregnancy period or entire pregnancy
<b>Cohort entry exclusion and care setting</b>	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS) <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b>	See Appendix U		See Appendix U	
<b>Medical products of interest</b>	See Appendix U		See Appendix U	
<b>Index date to define drug exposure evaluation window</b>	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, delivery date)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, delivery date)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19
<b>Evaluation window #1</b>	Exposed (-30, -1) relative to anchoring COVID-19 date		Exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #2</b>	NOT exposed (-30, -1) relative to anchoring COVID-19 date		NOT exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #3</b>	Exposed (0, +30) relative to anchoring COVID-19 date		Exposed (0, +30) relative to anchoring COVID-19 date	
<b>Evaluation window #4</b>	NOT exposed (0, +30) relative to anchoring COVID-19 date		NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b>				
<b>Health outcome of interest</b>	Low birth weight		Small for gestational age	
<b>Care setting</b>	Any care setting		Any care setting	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Washout (days)</b>	0	0
<b>Blackout period</b>	N/A	N/A
<b>Claims to look for outcomes</b>	Mother and infant claims	Mother and infant claims
<b>Outcome evaluation index date</b>	Live birth delivery admission date	Live birth delivery admission date
<b>Outcome evaluation window</b>	(0, +7)	(0, +7)

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p> <p><b>Matching caliper settings</b></p> <p><b>Temporal matching factor</b></p> <p><b>Categorical pregnancy duration matching factor</b></p> <p><b>Categorical age matching factor</b></p> <p><b>Pregnancy duration categories</b></p> <p><b>Age categories</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p> <p>0.05</p> <p>Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i></p> <p>Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19</p> <p>See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)</p> <p>A) 12-24; B) 25-39; C) 40-54 years old</p>
<p><b>Subgroup Analyses</b></p> <p><b>Stratifying variable</b></p> <p><b>Re-matching</b></p> <p><b>Analysis type</b></p> <p><b>Effect estimation</b></p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>	<p>N/A</p> <p>N/A</p> <p>Unconditional and Conditional</p> <p>Risk-set Level</p>

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #18: Total pregnancy COVID-19 evaluation Neonatal outcome: Microcephaly		Matched analysis #19: Total pregnancy COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (1 occurrence)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>				
<b>Pregnancy Episode Creation</b>				
Pre-pregnancy period	183	183	183	183
Delivery washout	301	301	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7	7	7
Pregnancy duration in absence of pre/postterm codes	273	273	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any	Any	Any
Non-pregnant cohort?	No	No	No	No
<b>"Exposure"</b>				
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date		Estimated pregnancy start date	
Evaluation window	(0, delivery date)		(0, delivery date)	
Cohort entry and care setting	Any time during pregnancy U07.1 diagnosis (any care setting)		Any time during pregnancy U07.1 diagnosis (any care setting)	
	<i>or</i>		<i>or</i>	
	B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)		B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)	
	<i>or</i>		<i>or</i>	
	Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting		Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	
Cohort definition	Cohort includes first valid index COVID-19 date during pregnancy		Cohort includes first valid index COVID-19 date during pregnancy	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<p><b>Pre-Existing Condition</b></p> <p><b>Include/Exclude</b></p> <p><b>Index date to define inclusion/exclusion evaluation window</b></p> <p><b>Evaluation window (days)</b></p> <p><b>Cohort entry exclusion and care setting</b></p> <p><b>Index date to define criteria</b></p>	<p>COVID-19 diagnosis or positive lab result Inclusion</p> <p>Estimated pregnancy start date</p> <p>(0, delivery date)</p> <p>Any time during pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date)</p> <p>183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Inclusion</p> <p>Estimated pregnancy start date</p> <p>(0, delivery date)</p> <p>Any time during pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>	<p>COVID-19 diagnosis or positive lab result Exclusion</p> <p>Estimated pregnancy start date</p> <p>(-183, delivery date)</p> <p>183 days pre-pregnancy period or entire pregnancy</p> <p>U07.1 diagnosis (any care setting)</p> <p><i>or</i></p> <p>B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)</p> <p><i>or</i></p> <p>Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting</p> <p>Estimated pregnancy start date</p>
<p><b>Medical Product Exposures</b></p> <p><b>Medical products of interest</b></p> <p><b>Index date to define drug exposure evaluation window</b></p> <p><b>Evaluation window #1</b></p> <p><b>Evaluation window #2</b></p> <p><b>Evaluation window #3</b></p> <p><b>Evaluation window #4</b></p>	<p>See Appendix U</p> <p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, delivery date)</p> <p>Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p> <p>Exposed (-30, -1) relative to anchoring COVID-19 date</p> <p>NOT exposed (-30, -1) relative to anchoring COVID-19 date</p> <p>Exposed (0, +30) relative to anchoring COVID-19 date</p> <p>NOT exposed (0, +30) relative to anchoring COVID-19 date</p>		<p>See Appendix U</p> <p>Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, delivery date)</p> <p>Exact calendar date that the matched "exposure" patient had evidence of COVID-19</p> <p>Exposed (-30, -1) relative to anchoring COVID-19 date</p> <p>NOT exposed (-30, -1) relative to anchoring COVID-19 date</p> <p>Exposed (0, +30) relative to anchoring COVID-19 date</p> <p>NOT exposed (0, +30) relative to anchoring COVID-19 date</p>	
<p><b>Neonatal Event Outcome</b></p> <p><b>Health outcome of interest</b></p> <p><b>Care setting</b></p> <p><b>Washout (days)</b></p> <p><b>Blackout period</b></p> <p><b>Claims to look for outcomes</b></p> <p><b>Outcome evaluation index date</b></p> <p><b>Outcome evaluation window</b></p>	<p>Microcephaly</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date</p> <p>(0, +90)</p>		<p>Major congenital malformation per CDC SET-NET definition</p> <p>Any care setting</p> <p>0</p> <p>N/A</p> <p>Infant claims only</p> <p>Live birth delivery admission date</p> <p>(0, +90)</p>	
<p><b>Propensity Score Matching</b></p> <p><b>Covariates to be included in model</b></p> <p><b>Index date for demographic assessment</b></p> <p><b>Matching ratio</b></p>	<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p>		<p>See Appendix T</p> <p>Delivery date</p> <p>1:1</p>	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Matching caliper settings	0.05	0.05
<b>Temporal matching factor</b>	Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19	Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19
<b>Categorical pregnancy duration matching factor</b>	Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19	Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19
<b>Categorical age matching factor</b>	Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19	Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19
<b>Pregnancy duration categories</b>	See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)	See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)
<b>Age categories</b>	A) 12-24; B) 25-39; C) 40-54 years old	A) 12-24; B) 25-39; C) 40-54 years old
<b>Subgroup Analyses</b>		
<b>Stratifying variable</b>	N/A	N/A
<b>Re-matching</b>	N/A	N/A
<b>Analysis type</b>	Unconditional and Conditional	Unconditional and Conditional
<b>Effect estimation</b>	Risk-set Level	Risk-set Level



**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

Propensity Score Estimate Group	Matched analysis #20: Total pregnancy COVID-19 evaluation Neonatal outcome: Major congenital malformation per CDC SET-NET definition (2 occurrences)	
	Pregnant patients with COVID-19	Pregnant patients without COVID-19
<b>Cohorts</b>		
<b>Pregnancy Episode Creation</b>		
Pre-pregnancy period	183	183
Delivery washout	301	301
Delivery washout definition	Live birth delivery, stillbirth delivery, spontaneous abortion	Live birth delivery, stillbirth delivery, spontaneous abortion
Pre/postterm evaluation window	7	7
Pregnancy duration in absence of pre/postterm codes	273	273
Mother-infant linkage requirement	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other	*Birth certificate; *Birth registry; *Health plan subscriber or family number; *Exact or probabilistic last name and address match based upon; health plan administrative data; *Other
Allowed # of days between infant birth date and delivery date	Any	Any
Allowed gap between infant delivery and enrollment	Any	Any
Non-pregnant cohort?	No	No
<b>"Exposure"</b>		
Prevalent exposure/comparator	COVID-19 diagnosis or positive lab result	Unexposed (no COVID-19 diagnosis or positive lab result)
Index date to define "exposure" evaluation window	Estimated pregnancy start date	
Evaluation window	(0, delivery date) Any time during pregnancy	
Cohort entry and care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Cohort definition</b>	Cohort includes first valid index COVID-19 date during pregnancy	
<b>Pre-Existing Condition</b>	COVID-19 diagnosis or positive lab result Inclusion	COVID-19 diagnosis or positive lab result Exclusion
<b>Include/Exclude</b>		
<b>Index date to define inclusion/exclusion evaluation window</b>	Estimated pregnancy start date	Estimated pregnancy start date
<b>Evaluation window (days)</b>	(0, delivery date) Any time during pregnancy	(-183, delivery date) 183 days pre-pregnancy period or entire pregnancy
<b>Cohort entry exclusion and care setting</b>	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting	U07.1 diagnosis (any care setting)  <i>or</i> B97.21, B97.29, B34.2, J12.81 diagnosis (IP/IS)  <i>or</i> Positive or presumptive positive NAAT SARS-CoV-2 laboratory result in any care setting
<b>Index date to define criteria</b>	Estimated pregnancy start date	Estimated pregnancy start date
<b>Medical Product Exposures</b>	See Appendix U	
<b>Medical products of interest</b>		
<b>Index date to define drug exposure evaluation window</b>	Date of first qualifying "exposure": COVID-19 diagnosis or positive lab result (0, delivery date)	Exact calendar date that the matched "exposure" patient had evidence of COVID-19
<b>Evaluation window #1</b>	Exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #2</b>	NOT exposed (-30, -1) relative to anchoring COVID-19 date	
<b>Evaluation window #3</b>	Exposed (0, +30) relative to anchoring COVID-19 date	
<b>Evaluation window #4</b>	NOT exposed (0, +30) relative to anchoring COVID-19 date	
<b>Neonatal Event Outcome</b>	2 occurrences of major congenital malformation per CDC SET-NET definition	
<b>Health outcome of interest</b>		
<b>Care setting</b>	Any care setting	
<b>Washout (days)</b>	0	
<b>Blackout period</b>	N/A	
<b>Claims to look for outcomes</b>	Infant claims only	
<b>Outcome evaluation index date</b>	Live birth delivery admission date	
<b>Outcome evaluation window</b>	(0, +90)	
<b>Propensity Score Matching</b>	See Appendix T	
<b>Covariates to be included in model</b>		

**Appendix S. Specifications of Parameters Used to Define Cohort Entry and Propensity Score (PS) Matching**

<b>Index date for demographic assessment</b> <b>Matching ratio</b> <b>Matching caliper settings</b>	Delivery date 1:1 0.05	
<b>Temporal matching factor</b>  <b>Categorical pregnancy duration matching factor</b>  <b>Categorical age matching factor</b>  <b>Pregnancy duration categories</b>  <b>Age categories</b>		Estimated pregnancy start date of referent patient without COVID-19 must be within +/- 14 days of estimated pregnancy start date of matched exposure pregnant patient with COVID-19 <i>and</i> Estimated pregnancy duration category of referent patient without COVID-19 must be the same estimated pregnancy duration category as matched exposure pregnant patient with COVID-19 <i>and</i> Age at delivery of referent patient without COVID-19 must be same age category as matched exposure patient with COVID-19  See Appendix D: 1) preterm; 2) term; 3) postterm; 4) unknown term (no gestational age code identified)  A) 12-24; B) 25-39; C) 40-54 years old
<b>Subgroup Analyses</b> <b>Stratifying variable</b> <b>Re-matching</b> <b>Analysis type</b> <b>Effect estimation</b>	N/A N/A Unconditional and Conditional Risk-set Level	

ICD-9-CM, ICD-10-CM, HCPCS, and CPT codes are provided by Optum360. ICD-10-CM codes were mapped from ICD-9-CM codes using the Centers for Medicare and Medicaid Services General Equivalence Mappings.

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

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
	Age (continuous variable, as integer)	--	--	Estimated pregnancy start date	--	No
	Age group (categorical variable)					
	12-24 years	--	--	Estimated pregnancy start date	--	Yes
	25-39 years	--	--	Estimated pregnancy start date	--	Yes
	40-54 years	--	--	Estimated pregnancy start date	--	Yes
	Calendar year of delivery					
	2020	--	--	Estimated pregnancy start date	--	No
	2021	--	--	Estimated pregnancy start date	--	No
	2022	--	--	Estimated pregnancy start date	--	No
	Race					
	American Indian or Alaska Native	--	--	Delivery date	--	No
	Asian	--	--	Delivery date	--	No
	Black or African American	--	--	Delivery date	--	No
	Native Hawaiian or Other Pacific Islander	--	--	Delivery date	--	No
	White	--	--	Delivery date	--	No
	Multi-racial	--	--	Delivery date	--	No
	Unknown	--	--	Delivery date	--	No
	Ethnicity					
	Hispanic	--	--	Delivery date	--	No
	Pregnancy duration at live birth delivery					
	Preterm	--	--	Delivery date	--	Yes
	Term	--	--	Delivery date	--	Yes
	Postterm	--	--	Delivery date	--	Yes
	Unknown term	--	--	Delivery date	--	Yes
	Mean gestational age at delivery	--	--	Delivery date	--	No
	Cancer	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No

Appendix T. Specifications of Parameters Used to Define Baseline Characteristics

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
<b>Maternal pre-existing or at-risk medical conditions</b>	Cardiovascular and other vascular diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Cardiovascular disease	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Congenital heart disease	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Other vascular diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Endocrine disorders	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	Yes
	Diabetes mellitus	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Obesity (BMI ≥ 30 kg/m <sup>2</sup> )	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Hypertension	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Immunological diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Human immunodeficiency virus infection	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Immunosuppression	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Mental disorders	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Renal disease: Chronic kidney disease	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Respiratory diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	Yes
	Asthma	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Chronic obstructive pulmonary disease	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Other chronic respiratory diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Rheumatic diseases	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
	Sickle cell disease	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
	Smoking	Any	Any	Estimated pregnancy start date	(-183, +90) pre-pregnancy or 1st trimester	No
<b>Maternal obstetric conditions in pre-pregnancy</b>	Assisted reproductive technology	Any	Any	Estimated pregnancy start date	(-183, -1) pre-pregnancy	No
<b>Maternal/infant obstetric conditions in the +/- 7 days of delivery</b>	Caesarean section	Any	Any	Delivery date	(-7, +7) +/-7 days of delivery	No
<b>Hierarchical COVID-19 severity per modified WHO algorithm</b>	Level 5 Death during hospitalization for COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Level 4 Hospitalization for COVID-19 diagnosis or positive NAAT result with ARDS or requiring intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Level 3 Hospitalization for COVID-19 diagnosis or positive NAAT result with ICU admission	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Level 2 Hospitalization for COVID-19 diagnosis or positive NAAT result with dyspnea, pneumonia, supplemental oxygen, non-invasive oxygen therapy, hypoxia, or hypoxemia	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	<u>Non-severe COVID-19</u> : Level 1 Any recorded COVID-19 diagnosis or positive NAAT result	Any	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	<u>Severe COVID-19</u> : Aggregate Levels 2-5	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
<b>COVID-19 and obstetric reasons</b>	Hospitalization for COVID-19 as the primary <i>diagnosis</i>	Inpatient (IP/IS)	Primary	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result with no obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result and obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Hospitalization for obstetric reason without COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
<b>Oxygenation</b>	Supplemental oxygen	Any	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	High-flow oxygen or non-invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
	Intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, +90) 1st trimester	No
<b>Hierarchical COVID-19 severity per modified WHO algorithm</b>	Level 5 Death during hospitalization for COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Level 4 Hospitalization for COVID-19 diagnosis or positive NAAT result with ARDS or requiring intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Level 3 Hospitalization for COVID-19 diagnosis or positive NAAT result with ICU admission	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Level 2 Hospitalization for COVID-19 diagnosis or positive NAAT result with dyspnea, pneumonia, supplemental oxygen, non-invasive oxygen therapy, hypoxia, or hypoxemia	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	<u>Non-severe COVID-19</u> : Level 1 Any recorded COVID-19 diagnosis or positive NAAT result	Any	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	<u>Severe COVID-19</u> : Aggregate Levels 2-5	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
<b>COVID-19 and obstetric reasons</b>	Hospitalization for COVID-19 as the primary <i>diagnosis</i>	Inpatient (IP/IS)	Primary	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result with no obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result and obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Hospitalization for obstetric reason without COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
<b>Oxygenation</b>	Supplemental oxygen	Any	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	High-flow oxygen or non-invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
	Intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+91, +180) 2nd trimester	No
<b>Hierarchical COVID-19 severity per modified WHO algorithm</b>	Level 5 Death during hospitalization for COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Level 4 Hospitalization for COVID-19 diagnosis or positive NAAT result with ARDS or requiring intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Level 3 Hospitalization for COVID-19 diagnosis or positive NAAT result with ICU admission	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Level 2 Hospitalization for COVID-19 diagnosis or positive NAAT result with dyspnea, pneumonia, supplemental oxygen, non-invasive oxygen therapy, hypoxia, or hypoxemia	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	<u>Non-severe COVID-19</u> : Level 1 Any recorded COVID-19 diagnosis or positive NAAT result	Any	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	<u>Severe COVID-19</u> : Aggregate Levels 2-5	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
<b>COVID-19 and obstetric reasons</b>	Hospitalization for COVID-19 as the primary <i>diagnosis</i>	Inpatient (IP/IS)	Primary	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result with no obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result and obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Hospitalization for obstetric reason without COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No



**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
<b>Oxygenation</b>	Supplemental oxygen	Any	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	High-flow oxygen or non-invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
	Intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(+181, delivery date) 3rd trimester	No
<b>Hierarchical COVID-19 severity per modified WHO algorithm</b>	Level 5 Death during hospitalization for COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Level 4 Hospitalization for COVID-19 diagnosis or positive NAAT result with ARDS or requiring intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Level 3 Hospitalization for COVID-19 diagnosis or positive NAAT result with ICU admission	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Level 2 Hospitalization for COVID-19 diagnosis or positive NAAT result with dyspnea, pneumonia, supplemental oxygen, non-invasive oxygen therapy, hypoxia, or hypoxemia	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	<u>Non-severe COVID-19</u> : Level 1 Any recorded COVID-19 diagnosis or positive NAAT result	Any	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	<u>Severe COVID-19</u> : Aggregate Levels 2-5	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
<b>COVID-19 and obstetric reasons</b>	Hospitalization for COVID-19 as the primary <i>diagnosis</i>	Inpatient (IP/IS)	Primary	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result with no obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Hospitalization for COVID-19 diagnosis or positive NAAT result and obstetric reason	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Hospitalization for obstetric reason without COVID-19 diagnosis or positive NAAT result	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
<b>Oxygenation</b>	Supplemental oxygen	Any	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	High-flow oxygen or non-invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
	Intubation or invasive mechanical ventilation	Inpatient (IP/IS)	Any	Estimated pregnancy start date	(0, delivery date) pregnancy	No
<b>Bateman obstetric score</b>						
	Mean Bateman obstetric score	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	0	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	1-2	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	3-4	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	5-6	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	7-8	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	9-10	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	10+	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
<b>Health service utilization intensity</b>						
	Mean number of ambulatory encounters	AV	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of emergency room encounters	ED	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of inpatient hospital encounters	IP	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of non-acute institutional encounters	IS	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of other ambulatory encounters	OA	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No

**Appendix T. Specifications of Parameters Used to Define Baseline Characteristics**

Categories of Interest	Condition	Care Setting	Principal Diagnosis Position	Anchor Date Per Mother-Infant Linkage (MIL) File	Evaluation Period	Included in PS Model?
	Drug utilization					
	Mean number of unique drug classes	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of generics	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No
	Mean number of filled prescriptions	--	--	Estimated pregnancy start date	(-183, delivery date) pre-pregnancy or pregnancy	No

## Appendix U. Specifications of Parameters Used to Define Medical Product Utilization

**Evaluation periods:** Evaluation #1: Exposed (-30, -1) relative to anchoring COVID-19 date  
 Evaluation #2: NOT exposed (-30, -1) relative to anchoring COVID-19 date  
 Evaluation #3: Exposed (0, +30) relative to anchoring COVID-19 date  
 Evaluation #4: NOT exposed (0, +30) relative to anchoring COVID-19 date

**Evaluate evidence of dispensing date or days supply:** Dispensing date

**Evaluation number:** All valid medical product exposure dispensings

**Stockpiling:** Generic name

**Episode gap:** 0 days

**Episode extension:** 0 days

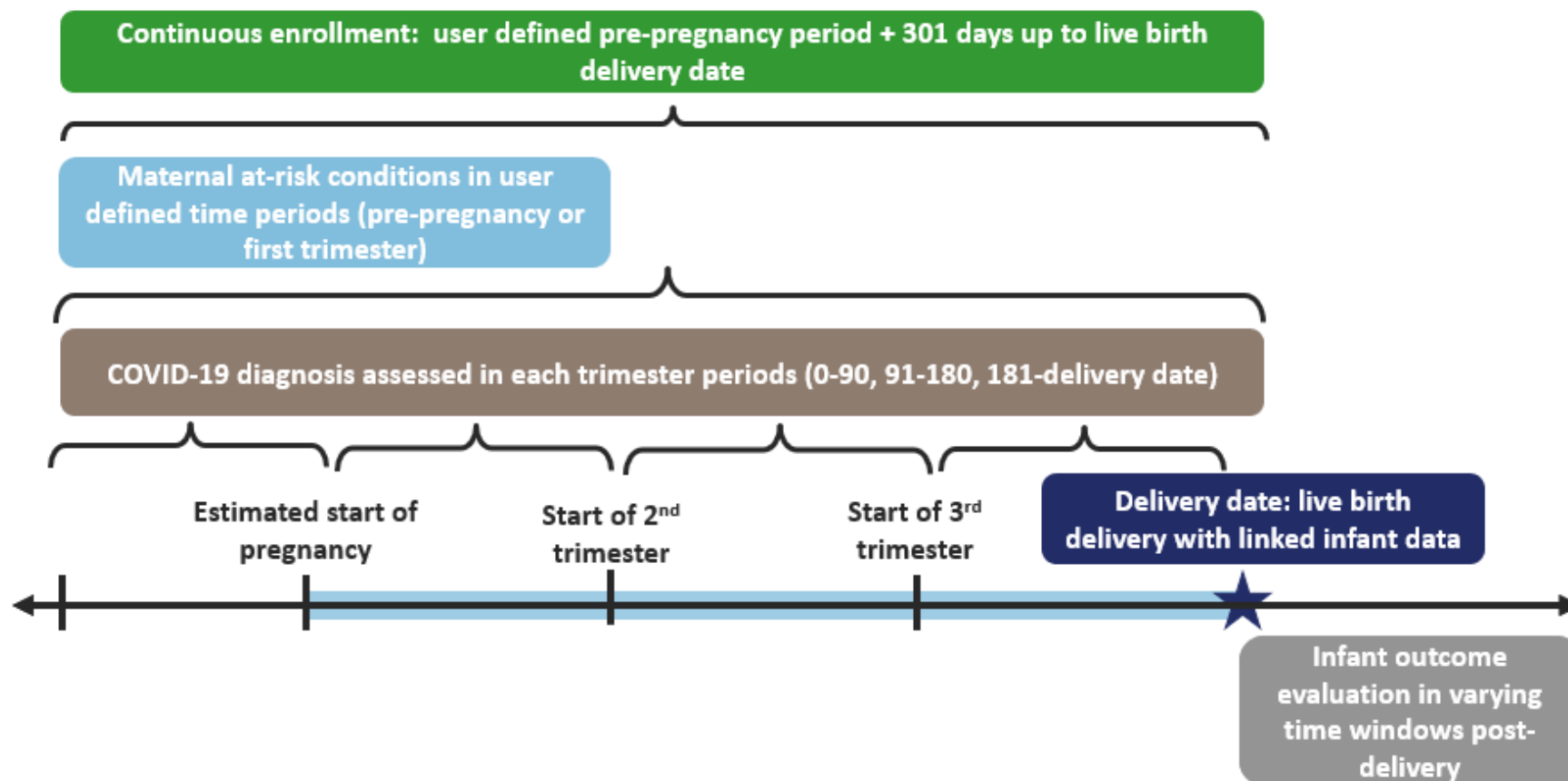
**Care setting:** Dispensing: outpatient pharmacy dispensing;  
 Administration: any care setting

MOI	Exposure	Exposure Incidence	Washout Period	Forced Days Supply
<b>CONSIGN Medications of Interest</b>				
1	Analgesics		0 days	1
2	Antibacterials		0 days	1
3	Anticoagulants/platelet inhibitors		0 days	1
4	Antihypertensives		0 days	1
5	Anti-inflammatories		0 days	1
6	Antimycobacterials		0 days	1
7	Antimycotics		0 days	1
8	Antivirals		0 days	1
9	Corticosteroids		0 days	1
10	Diabetes		0 days	1
11	Immune sera and globulins		0 days	1
12	Immunostimulants		0 days	1
13	Immunosuppressants		0 days	1
14	Medicines for obstructive airway disease		0 days	1
15	Nasal preparations		0 days	1
16	Psychoanaleptics		0 days	1
17	Psycholeptics		0 days	1
<b>Potential COVID-19 Medications</b>				
18	ACEI/ARB		0 days	1
19	Azithromycin		0 days	1
20	Baricitinib		0 days	1
21	Chloroquine		0 days	1
22	Corticosteroids (inhaled)		0 days	1
23	Corticosteroids (other)		0 days	1
24	Dexamethasone		0 days	1
25	Heparin		0 days	1
26	Hydroxychloroquine		0 days	1
27	Interferon-beta		0 days	1
28	Interleukin 6 inhibitors		0 days	1
29	Lopinavir / Ritonavir		0 days	1
30	Low molecular weight Heparin		0 days	1
31	Methylprednisolone		0 days	1
32	Monoclonal antibodies: Casirivimab & Imdevimab, Bamlanivimab & Etesevimab, Sotrovimab, Bebtelovimab		0 days	1
33	NSAIDs (other)		0 days	1
34	Prednisolone		0 days	1
35	Remdesivir		0 days	1
<b>MOI</b>				
Number	Exposure	Exposure Incidence	Washout Period	Forced Days Supply
36	Paxlovid		0 days	1

**Appendix U. Specifications of Parameters Used to Define Medical Product Utilization**

37	Molnupiravir	0 days	1
<b>Vaccinations</b>			
38	Influenza A vaccination	0 days	1
39	Pertussis vaccination	0 days	1
40	Pneumococcal vaccination	0 days	1

Appendix V. Diagrams to Detail the Design of the Analysis



Appendix V. Diagrams to Detail the Design of the Analysis

