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

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

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

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Overview for Request cder_mpl1r_wp112_nsdv01

Request ID: cder_mpl1r_wp112_nsdv01

Request Description: This report contains estimates of phosphodiesterase type 5 (PDE5) inhibitor use that occurred during a pregnancy ending in a live-born delivery or within 90 days prior to pregnancy start, among women in the Sentinel Distributed Database (SDD). This is report 2 of 2. Report 1 contains estimates of PDE5 inhibitor use among reproductive aged women in the SDD.

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.4.4

Data Source: Data from January 1, 2001 to March 31, 2018 from 16 Data Partners contributing to the SDD were included in this report. See Appendix A for dates of available data for each Data Partner. This request was distributed to Data Partners on August 27, 2018.

Study Design: The purpose of this request was to estimate PDE5 inhibitor use among women during a pregnancy ending in a live-born delivery. The number of members with an exposure prior to and during pregnancy was calculated overall, and additionally stratified by trimester, year of delivery and maternal age at the time of delivery.

Cohort Eligibility Criteria: Women in the following age groups were included in the cohort: 15-24, 25-34, 35-44, and 45-50 years. Eligible women were required to be enrolled in plans with medical and drug coverage for 391 days before their delivery date. Enrollment gaps of 30 days or less were bridged and considered as continuous coverage.

Pregnancy Episode Creation: A previously-validated algorithm¹ from Sentinel's Medication Exposure in Pregnancy Risk Evaluation Program was used to identify pregnancies with live birth deliveries within the study cohort. This algorithm used pre-/post-term delivery codes that occurred within 7 days of a delivery date in the inpatient care setting to determine a pregnancy duration. In absence of pre-/post-term codes, pregnancy duration was set to 273 days. Please see Appendix B for more details about this algorithm and for a list of gestational age codes from ICD-9-CM and ICD-10-CM diagnosis codes. See Appendix C for ICD-9-CM and ICD-10 diagnosis and procedure codes, and Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes used to define live-born delivery.

Exposures of Interest: The exposures of interest were sildenafil, tadalafil, vardenafil, and avanafil. These exposures were identified using National Drug Codes (NDC). See Appendix D for generic names of products used to define exposures. In addition to NDCs, sildenafil was also identified using a Healthcare Common Procedure Coding System (HCPCS) code. Please see Appendix E for procedure codes used to define exposures in this request. Exposure episodes were created by bridging days supply of dispensings that were overlapping, abutting, or subsequent with a gap of 60 days allowed. Exposure episodes that spanned across more than one trimester were counted as exposures in each trimester exposed.

Secondary Analysis: Among pregnant women with resulting live-born delivery who had evidence of PDE5 inhibitor use in the 90 days prior to and 301 days following pregnancy start, additional analyses were conducted to investigate potential indications and conditions related to PDE5 use. Conditions of interest were: cardiovascular implications, cutaneous implications, gastrointestinal implications, neurological implications, pulmonary arterial hypertension (PAH), pulmonary implications, reproductive implications, sexual implications, urogenital implications, fetal growth retardation, preeclampsia, diabetes, lupus, and none of the above conditions. Please see Appendix F for a list of ICD-9-CM and ICD-10-CM diagnosis codes used to define covariates in this request.

Please refer to Appendices G and H for detailed specifications of parameters used in this request.

Limitations: Algorithms used to define exposures and pregnancy start are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind. Additionally, the validated algorithm used identifies pregnancies resulting in a live birth delivery only; pregnancies that did not result in live birth may be missing from this analysis.

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

¹Andrade SE, Davis RL, Cheatham TC, et al. Medication Exposure in Pregnancy Risk Evaluation Program. *Matern Child Health J.* 2012 Oct;16(7):1349-54. doi: 10.1007/s10995-011-0902-x

Table of Contents

<u>Glossary</u>	List of Terms Found in this Report and their Definitions
<u>Table 1a</u>	Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy-Related Time Period
<u>Table 1b</u>	Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy-Related Time Period
<u>Table 2a</u>	Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Delivery Year
<u>Table 2b</u>	Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Delivery Year
<u>Table 3a</u>	Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age
<u>Table 3b</u>	Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age
<u>Table 4</u>	Percentage of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use with Related Conditions and Indications Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018
<u>Figure 1</u>	Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year
<u>Figure 2</u>	Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age
<u>Figure 3</u>	Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy Time Period
<u>Appendix A</u>	Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 28, 2017)
<u>Appendix B</u>	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define the Gestational Age Algorithm in this Request
<u>Appendix C</u>	List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request
<u>Appendix C</u>	List of Generic Names Used to Define Exposures in this Request
<u>Appendix D</u>	List of Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exposures in this Request
<u>Appendix E</u>	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Covariates in this Request
<u>Appendix F</u>	Specifications Defining Parameters Used in this Request
<u>Appendix G</u>	Specifications Defining Baseline Covariates Used in this Request

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

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). Along with the Principal Diagnosis Indicator, 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.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: (1): Cohort includes only the first valid treatment episode during the query period; (2): Cohort includes all valid treatment episodes during the query period; (3): Cohort includes all valid treatment episodes during the query period until an event occurs.

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 MP algorithm: (0): Counts all occurrences of an 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 days 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.

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.

*not all terms may be used in this report

Table 1a. Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy-Related Time Period

Total Number of Eligible Pregnant Women: 2,776,562

	Number of Pregnancy Episodes with Product Use									
	During Any Period ¹	90 Days Before Pregnancy Start	Any Trimester	1st Trimester	2nd Trimester	3rd Trimester	All Trimesters	Only During 1st Trimester	Only During 2nd Trimester	Only During 3rd Trimester
Number of Eligible Pregnancy Episodes	3,373,369	3,373,369	3,373,369	3,373,369	3,373,369	3,368,587	3,368,587	3,373,369	3,373,369	3,368,587
<i>Any PDE5 Inhibitor</i>	139	91	96	88	21	21	16	71	3	4
<i>Sildenafil</i>	127	83	85	81	13	12	10	70	2	2
<i>Tadalafil</i>	14	8	12	7	8	10	6	1	1	3
<i>Vardenafil</i>	1	1	0	0	0	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0	0	0	0	0	0

¹Includes any exposure that occurred in the 90 days prior to pregnancy start or during any trimester of the pregnancy.

Table 1b. Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy-Related Time Period

	Total Number of Eligible Pregnant Women: 2,776,562								
	Number of Product Use Episodes								
	90 Days Before Pregnancy Start	Any Trimester	1st Trimester	2nd Trimester	3rd Trimester	All Trimesters	Only During 1st Trimester	Only During 2nd Trimester	Only During 3rd Trimester
Number of Eligible Pregnancy Episodes	3,373,369	3,373,369	3,373,369	3,373,369	3,368,587	3,368,587	3,373,369	3,373,369	3,368,587
<i>Any PDE5 Inhibitor</i>	92	100	88	23	21	20	71	3	4
<i>Sildenafil</i>	84	87	81	14	12	12	70	2	2
<i>Tadalafil</i>	8	14	7	9	10	8	1	1	3
<i>Vardenafil</i>	1	0	0	0	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0	0	0	0	0

Table 2a. Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Delivery Year

Total Number of Eligible Pregnant Women: 2,776,562																			
	Number of Pregnancy Episodes with Product Use																		
	Total	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of Eligible Pregnancy Episodes	3,373,369	59,342	65,432	65,337	64,676	68,267	71,773	153,270	164,461	308,286	301,788	289,364	283,033	290,722	297,037	311,358	317,389	244,032	17,802
<i>Any PDE5 Inhibitor</i>	96	0	0	0	0	0	1	4	3	10	10	7	6	11	15	12	11	5	1
<i>Sildenafil</i>	85	0	0	0	0	0	0	2	3	10	9	7	6	11	11	11	9	5	1
<i>Tadalafil</i>	12	0	0	0	0	0	1	2	0	0	1	0	0	0	5	1	2	0	0
<i>Vardenafil</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2b. Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Delivery Year

Total Number of Eligible Pregnant Women: 2,776,562																			
	Number of Product Use Episodes																		
	Total	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of Eligible Pregnancy Episodes	3,373,369	59,342	65,432	65,337	64,676	68,267	71,773	153,270	164,461	308,286	301,788	289,364	283,033	290,722	297,037	311,358	317,389	244,032	17,802
<i>Any PDE5 Inhibitor</i>	100	0	0	0	0	0	1	5	3	11	10	7	6	11	15	13	12	5	1
<i>Sildenafil</i>	87	0	0	0	0	0	0	2	3	11	9	7	6	11	11	12	9	5	1
<i>Tadalafil</i>	14	0	0	0	0	0	1	3	0	0	1	0	0	0	5	1	3	0	0
<i>Vardenafil</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 3a. Summary of Pregnancy Episodes with Prevalent Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age

Total Number of Eligible Pregnant Women:
Mean Age of Pregnant Women: 30.52

	Number of Pregnancy Episodes with Product Use				
	Total	15-24 Years	25-34 Years	35-44 Years	45-50 Years
Number of Eligible Pregnancy Episodes	3,373,369	608,328	2,012,004	739,931	13,106
<i>Any PDE5 Inhibitor</i>	96	2	40	47	7
<i>Sildenafil</i>	85	2	30	46	7
<i>Tadalafil</i>	12	0	11	1	0
<i>Vardenafil</i>	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0

Table 3b. Summary of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age

**Total Number of Eligible Pregnant
Mean Age of Pregnant Women: 30.52**

	Number of Product Use Episodes				
	Total	15-24 Years	25-34 Years	35-44 Years	45-50 Years
Number of Eligible Pregnancy Episodes	3,373,369	608,328	2,012,004	739,931	13,106
<i>Any PDE5 Inhibitor</i>	100	2	43	47	8
<i>Sildenafil</i>	87	2	31	46	8
<i>Tadalafil</i>	14	0	13	1	0
<i>Vardenafil</i>	0	0	0	0	0
<i>Avanafil</i>	0	0	0	0	0

Table 4. Percentage of Prevalent Episodes of Phosphodiesterase Type 5 (PDE5) Inhibitor Use with Related Conditions and Indications Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018

	Any PDE5 Inhibitor	Sildenafil	Tadalafil	Vardenafil	Avanafil
Total Episodes¹	148	133	18	1	0
Conditions and Indications²					
Cardiovascular implications	3.4%	2.3%	11.1%	0.0%	0.0%
Cutaneous implications	9.5%	9.8%	5.6%	0.0%	0.0%
Gastrointestinal implications	0.0%	0.0%	0.0%	0.0%	0.0%
Neurological implications	2.0%	0.8%	11.1%	0.0%	0.0%
Pulmonary arterial hypertension	15.5%	10.5%	61.1%	0.0%	0.0%
Pulmonary implications	2.0%	1.5%	11.1%	0.0%	0.0%
Reproductive implications	38.5%	37.6%	50.0%	0.0%	0.0%
Sexual implications	2.7%	3.0%	0.0%	0.0%	0.0%
Urogenital implications	4.7%	3.8%	16.7%	0.0%	0.0%
Fetal growth retardation	25.0%	26.3%	16.7%	0.0%	0.0%
Preeclampsia	31.1%	29.3%	50.0%	0.0%	0.0%
Diabetes	6.1%	6.8%	0.0%	0.0%	0.0%
Lupus	6.8%	5.3%	16.7%	0.0%	0.0%
None of the conditions of interest	35.1%	35.3%	22.2%	100.0%	0.0%

¹Total episode represents pregnancy episodes with a PDE5 exposure of interest in the 90 days prior to and 301 days following the pregnancy episode start date. The counts in this table can be higher than 'Pregnancy Episodes with Exposure Prior to and During Pregnancy' reported in Table 1a as some women could have pregnancy duration shorter than 301 days.

²Conditions were evaluated in the 90 days prior and 301 days following the pregnancy episode start date

Figure 1. Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Delivery Year

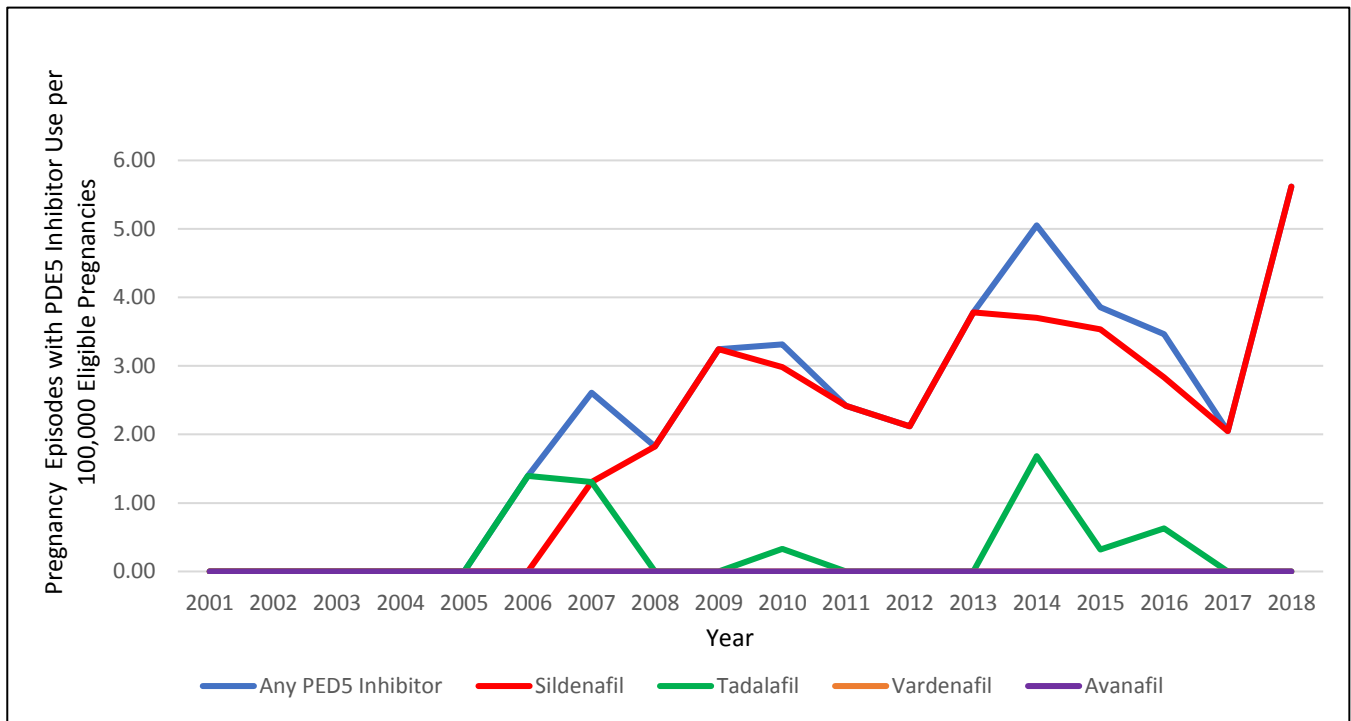


Figure 2. Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Maternal Age

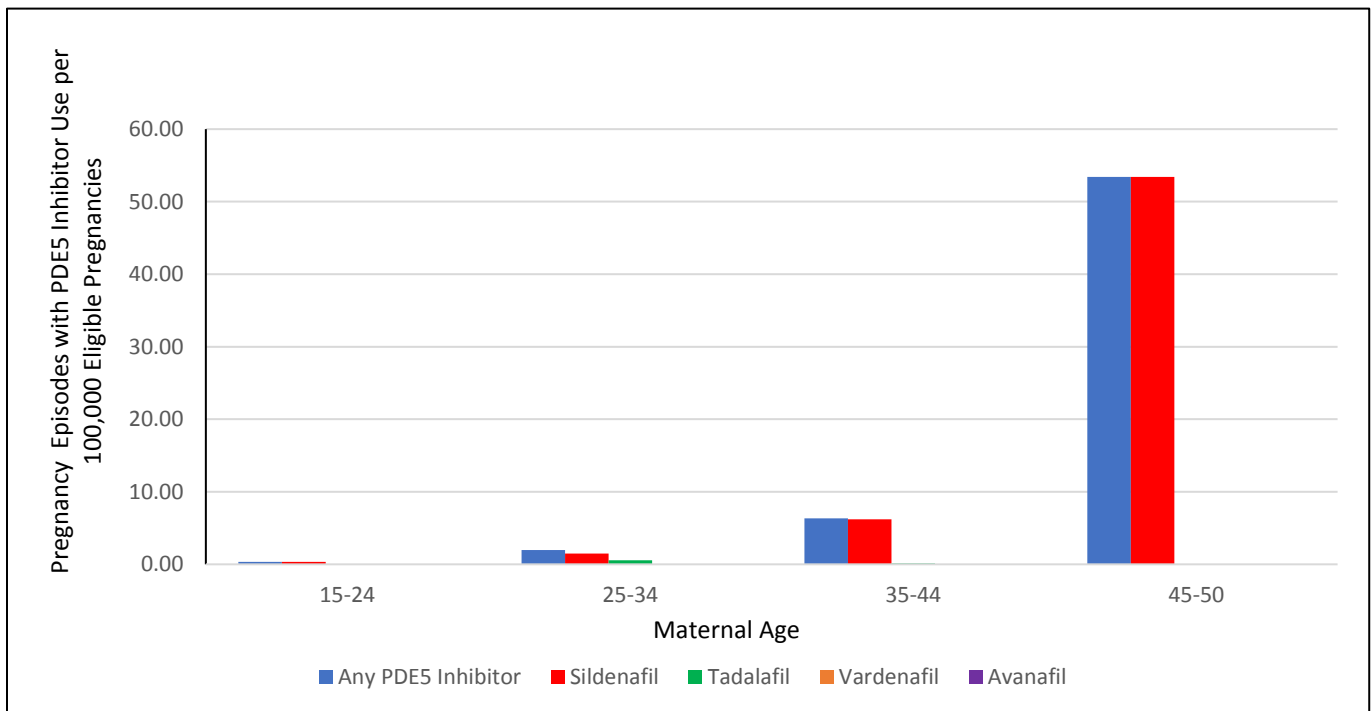
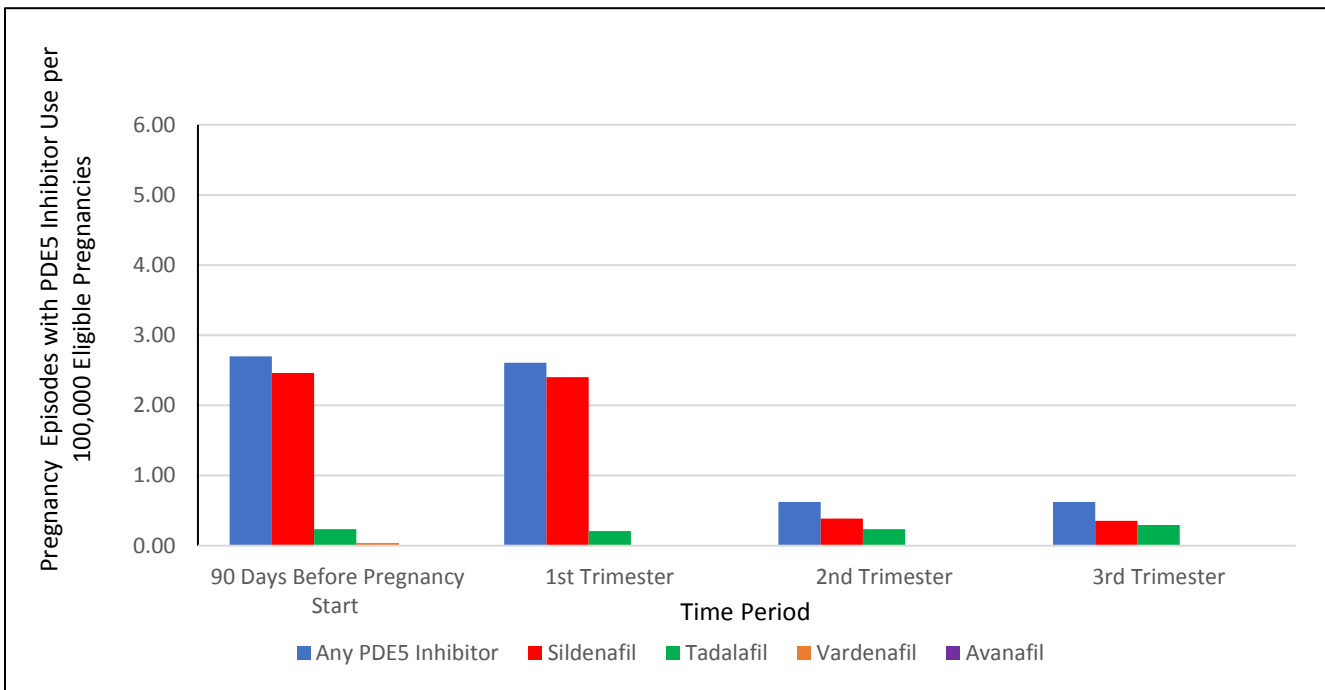


Figure 3. Utilization of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Women with Live Birth Deliveries in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Pregnancy Time Period



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 28, 2017)

Data Partner ID	Start Date¹	End Date¹
DP01	01/01/2000	12/31/2017
DP02	01/01/2005	09/30/2017
DP03	01/01/2000	08/31/2017
DP04	01/01/2008	03/31/2018
DP05	01/01/2000	06/30/2017
DP06	01/01/2000	12/31/2016
DP07	01/01/2006	12/31/2017
DP08	01/01/2000	03/31/2018
DP09	06/01/2007	10/31/2017
DP10	01/01/2000	03/31/2016
DP11	01/01/2000	10/31/2017
DP12	01/01/2004	01/31/2018
DP13	01/01/2000	03/31/2018
DP14	01/01/2008	06/30/2017
DP15	01/01/2000	05/31/2015
DP16	01/01/2012	06/30/2016

¹Start Date and End Date are first calculated by individual table (enrollment, dispensing, etc). End Date is defined as the greatest year-month with a record count that is within 80% of the previous year-month. After Start Date and End Dates are calculated by individual tables, the overall End Date is the minimum of all the table End Dates.

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

Code	Code Type	Duration (Days)	Description	Priority	Priority	Priority
				Group 1	Group 2	Priority
O48.1	ICD-10-CM	294	Prolonged pregnancy	0	1	1
P08.22	ICD-10-CM	294	Prolonged gestation of newborn	0	1	1
Z3A.49	ICD-10-CM	301	Greater than 42 weeks gestation of pregnancy	1	0	1
O48.0	ICD-10-CM	287	Post-term pregnancy	0	1	2
P08.21	ICD-10-CM	287	Post-term newborn	0	1	2
Z3A.42	ICD-10-CM	298	42 weeks gestation of pregnancy	1	0	2
Z3A.41	ICD-10-CM	291	41 weeks gestation of pregnancy	1	0	3
Z3A.40	ICD-10-CM	284	40 weeks gestation of pregnancy	1	0	4
Z3A.39	ICD-10-CM	277	39 weeks gestation of pregnancy	1	0	5
Z3A.38	ICD-10-CM	270	38 weeks gestation of pregnancy	1	0	6
Z3A.37	ICD-10-CM	263	37 weeks gestation of pregnancy	1	0	7
P07.39	ICD-10-CM	256	Preterm newborn, gestational age 36 completed weeks	1	0	8
Z3A.36	ICD-10-CM	256	36 weeks gestation of pregnancy	1	0	8
P07.38	ICD-10-CM	249	Preterm newborn, gestational age 35 completed weeks	1	0	9
Z3A.35	ICD-10-CM	249	35 weeks gestation of pregnancy	1	0	9
P07.37	ICD-10-CM	242	Preterm newborn, gestational age 34 completed weeks	1	0	10
Z3A.34	ICD-10-CM	242	34 weeks gestation of pregnancy	1	0	10
P07.36	ICD-10-CM	235	Preterm newborn, gestational age 33 completed weeks	1	0	11
Z3A.33	ICD-10-CM	235	33 weeks gestation of pregnancy	1	0	11
P07.35	ICD-10-CM	228	Preterm newborn, gestational age 32 completed weeks	1	0	12
Z3A.32	ICD-10-CM	228	32 weeks gestation of pregnancy	1	0	12
P07.34	ICD-10-CM	221	Preterm newborn, gestational age 31 completed weeks	1	0	13
Z3A.31	ICD-10-CM	221	31 weeks gestation of pregnancy	1	0	13
P07.33	ICD-10-CM	214	Preterm newborn, gestational age 30 completed weeks	1	0	14
Z3A.30	ICD-10-CM	214	30 weeks gestation of pregnancy	1	0	14
P07.32	ICD-10-CM	207	Preterm newborn, gestational age 29 completed weeks	1	0	15
Z3A.29	ICD-10-CM	207	29 weeks gestation of pregnancy	1	0	15
P07.31	ICD-10-CM	200	Preterm newborn, gestational age 28 completed weeks	1	0	16
Z3A.28	ICD-10-CM	200	28 weeks gestation of pregnancy	1	0	16
P07.26	ICD-10-CM	193	Extreme immaturity of newborn, gestational age 27 completed weeks	1	0	17
Z3A.27	ICD-10-CM	193	27 weeks gestation of pregnancy	1	0	17
P07.25	ICD-10-CM	186	Extreme immaturity of newborn, gestational age 26 completed weeks	1	0	18
Z3A.26	ICD-10-CM	186	26 weeks gestation of pregnancy	1	0	18
P07.24	ICD-10-CM	179	Extreme immaturity of newborn, gestational age 25 completed weeks	1	0	19
Z3A.25	ICD-10-CM	179	25 weeks gestation of pregnancy	1	0	19
P07.23	ICD-10-CM	172	Extreme immaturity of newborn, gestational age 24 completed weeks	1	0	20
Z3A.24	ICD-10-CM	172	24 weeks gestation of pregnancy	1	0	20
P07.22	ICD-10-CM	165	Extreme immaturity of newborn, gestational age 23 completed weeks	1	0	21
Z3A.23	ICD-10-CM	165	23 weeks gestation of pregnancy	1	0	21
P07.21	ICD-10-CM	158	Extreme immaturity of newborn, gestational age less than 23 completed weeks	1	0	22
Z3A.22	ICD-10-CM	158	22 weeks gestation of pregnancy	1	0	22
Z3A.21	ICD-10-CM	151	21 weeks gestation of pregnancy	1	0	23

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

Code	Code Type	Duration (Days)	Description	Priority	Priority	Priority
				Group 1	Group 2	
Z3A.20	ICD-10-CM	144	20 weeks gestation of pregnancy	1	0	24
P07.20	ICD-10-CM	196	Extreme immaturity of newborn, unspecified weeks of gestation	1	0	25
O60.13X0	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X1	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X2	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X3	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X4	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X5	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X9	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.14X0	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X1	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X2	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X3	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X4	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X5	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X9	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
P07.30	ICD-10-CM	245	Preterm newborn, unspecified weeks of gestation	1	0	26
O60.12X0	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X1	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X2	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X3	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X4	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X5	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
O60.12X9	ICD-10-CM	168	Preterm labor second trimester with preterm delivery second trimester	1	0	27
645.2	ICD-9-CM	294	Prolonged pregnancy	0	1	28
645.21	ICD-9-CM	294	Prolonged pregnancy	0	1	28
645.23	ICD-9-CM	294	Prolonged pregnancy	0	1	28
765.28	ICD-9-CM	252	35-36 completed weeks of gestation	1	0	28
766.22	ICD-9-CM	294	Prolonged gestation of infant	0	1	28
645.1	ICD-9-CM	287	Post term pregnancy	0	1	29
645.11	ICD-9-CM	287	Post term pregnancy	0	1	29
645.13	ICD-9-CM	287	Post term pregnancy	0	1	29
765.27	ICD-9-CM	238	33-34 completed weeks of gestation	1	0	29
766.21	ICD-9-CM	287	Post-term infant	0	1	29
765.26	ICD-9-CM	224	31-32 completed weeks of gestation	1	0	30
765.25	ICD-9-CM	210	29-30 completed weeks of gestation	1	0	31
765.24	ICD-9-CM	196	27-28 completed weeks of gestation	1	0	32
765.23	ICD-9-CM	182	25-26 completed weeks of gestation	1	0	33
765.21	ICD-9-CM	168	Less than 24 completed weeks of gestation	1	0	34
765.22	ICD-9-CM	168	24 completed weeks of gestation	1	0	34
765.00	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.01	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.02	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35

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

Code	Code Type	Duration (Days)	Description	Priority Group 1	Priority Group 2	Priority
765.03	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.04	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.05	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.06	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.07	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.08	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
765.09	ICD-9-CM	196	Extreme immaturity, by weight	1	0	35
644.21	ICD-9-CM	245	Early onset of delivery, delivered, with or without mention of antepartum condition	1	0	36
765.1	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.11	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.12	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.13	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.14	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.15	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.16	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.17	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.18	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.19	ICD-9-CM	245	Other preterm infants, by weight	1	0	36
765.2	ICD-9-CM	245	Unspecified weeks of gestation	1	0	36

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
594	CPT-4	Procedure	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care
59409	CPT-4	Procedure	Vaginal delivery only (with or without episiotomy and/or forceps)
5941	CPT-4	Procedure	Vaginal delivery only (with or without episiotomy and/or forceps); including postpartum
5951	CPT-4	Procedure	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care
59514	CPT-4	Procedure	Cesarean delivery only
59515	CPT-4	Procedure	Cesarean delivery only; including postpartum care
5961	CPT-4	Procedure	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care, after previous cesarean delivery
59612	CPT-4	Procedure	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps)
59614	CPT-4	Procedure	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care
59618	CPT-4	Procedure	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery
5962	CPT-4	Procedure	Cesarean delivery only, following attempted vaginal delivery after previous cesarean
59622	CPT-4	Procedure	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care
650	ICD-9-CM	Diagnosis	Normal delivery
763	ICD-9-CM	Diagnosis	Fetus or newborn affected by breech delivery and extraction
763.2	ICD-9-CM	Diagnosis	Fetus or newborn affected by forceps delivery
763.3	ICD-9-CM	Diagnosis	Fetus or newborn affected by delivery by vacuum extractor
763.4	ICD-9-CM	Diagnosis	Fetus or newborn affected by cesarean delivery
763.6	ICD-9-CM	Diagnosis	Fetus or newborn affected by precipitate delivery
768	ICD-9-CM	Diagnosis	Fetal death from asphyxia or anoxia before onset of labor or at unspecified time
768.1	ICD-9-CM	Diagnosis	Fetal death from asphyxia or anoxia during labor
641.01	ICD-9-CM	Diagnosis	Placenta previa without hemorrhage, with delivery
641.11	ICD-9-CM	Diagnosis	Hemorrhage from placenta previa, with delivery
641.21	ICD-9-CM	Diagnosis	Premature separation of placenta, with delivery
641.31	ICD-9-CM	Diagnosis	Antepartum hemorrhage associated with coagulation defects, with delivery
641.81	ICD-9-CM	Diagnosis	Other antepartum hemorrhage, with delivery
641.91	ICD-9-CM	Diagnosis	Unspecified antepartum hemorrhage, with delivery
642.01	ICD-9-CM	Diagnosis	Benign essential hypertension with delivery
642.02	ICD-9-CM	Diagnosis	Benign essential hypertension, with delivery, with current postpartum complication
642.11	ICD-9-CM	Diagnosis	Hypertension secondary to renal disease, with delivery
642.12	ICD-9-CM	Diagnosis	Hypertension secondary to renal disease, with delivery, with current postpartum complication
642.21	ICD-9-CM	Diagnosis	Other pre-existing hypertension, with delivery
642.22	ICD-9-CM	Diagnosis	Other pre-existing hypertension, with delivery, with current postpartum complication
642.31	ICD-9-CM	Diagnosis	Transient hypertension of pregnancy, with delivery

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
642.32	ICD-9-CM	Diagnosis	Transient hypertension of pregnancy, with delivery, with current postpartum complication
642.41	ICD-9-CM	Diagnosis	Mild or unspecified pre-eclampsia, with delivery
642.42	ICD-9-CM	Diagnosis	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication
642.51	ICD-9-CM	Diagnosis	Severe pre-eclampsia, with delivery
642.52	ICD-9-CM	Diagnosis	Severe pre-eclampsia, with delivery, with current postpartum complication
642.61	ICD-9-CM	Diagnosis	Eclampsia, with delivery
642.62	ICD-9-CM	Diagnosis	Eclampsia, with delivery, with current postpartum complication
642.71	ICD-9-CM	Diagnosis	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery
642.72	ICD-9-CM	Diagnosis	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication
642.91	ICD-9-CM	Diagnosis	Unspecified hypertension, with delivery
642.92	ICD-9-CM	Diagnosis	Unspecified hypertension, with delivery, with current postpartum complication
643.01	ICD-9-CM	Diagnosis	Mild hyperemesis gravidarum, delivered
643.11	ICD-9-CM	Diagnosis	Hyperemesis gravidarum with metabolic disturbance, delivered
643.21	ICD-9-CM	Diagnosis	Late vomiting of pregnancy, delivered
643.81	ICD-9-CM	Diagnosis	Other vomiting complicating pregnancy, delivered
643.91	ICD-9-CM	Diagnosis	Unspecified vomiting of pregnancy, delivered
644.21	ICD-9-CM	Diagnosis	Early onset of delivery, delivered, with or without mention of antepartum condition
645.01	ICD-9-CM	Diagnosis	Prolonged pregnancy, with delivery
645.11	ICD-9-CM	Diagnosis	Post term pregnancy, delivered, with or without mention of antepartum condition
645.21	ICD-9-CM	Diagnosis	Prolonged pregnancy, delivered, with or without mention of antepartum condition
645.22	ICD-9-CM	Diagnosis	
646.01	ICD-9-CM	Diagnosis	Papyraceous fetus, delivered, with or without mention of antepartum condition
646.11	ICD-9-CM	Diagnosis	Edema or excessive weight gain in pregnancy, with delivery, with or without mention of antepartum complication
646.12	ICD-9-CM	Diagnosis	Edema or excessive weight gain in pregnancy, with delivery, with current postpartum complication
646.21	ICD-9-CM	Diagnosis	Unspecified renal disease in pregnancy, with delivery
646.22	ICD-9-CM	Diagnosis	Unspecified renal disease in pregnancy, with delivery, with current postpartum complication
646.31	ICD-9-CM	Diagnosis	Pregnancy complication, recurrent pregnancy loss, with or without mention of antepartum condition
646.41	ICD-9-CM	Diagnosis	Peripheral neuritis in pregnancy, with delivery
646.42	ICD-9-CM	Diagnosis	Peripheral neuritis in pregnancy, with delivery, with current postpartum complication
646.51	ICD-9-CM	Diagnosis	Asymptomatic bacteriuria in pregnancy, with delivery
646.52	ICD-9-CM	Diagnosis	Asymptomatic bacteriuria in pregnancy, with delivery, with current postpartum complication
646.61	ICD-9-CM	Diagnosis	Infections of genitourinary tract in pregnancy, with delivery
646.62	ICD-9-CM	Diagnosis	Infections of genitourinary tract in pregnancy, with delivery, with current postpartum complication

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
646.71	ICD-9-CM	Diagnosis	Liver and biliary tract disorders in pregnancy, delivered, with or without mention of antepartum condition
646.81	ICD-9-CM	Diagnosis	Other specified complication of pregnancy, with delivery
646.82	ICD-9-CM	Diagnosis	Other specified complications of pregnancy, with delivery, with current postpartum complication
646.91	ICD-9-CM	Diagnosis	Unspecified complication of pregnancy, with delivery
647.01	ICD-9-CM	Diagnosis	Maternal syphilis, complicating pregnancy, with delivery
647.02	ICD-9-CM	Diagnosis	Maternal syphilis, complicating pregnancy, with delivery, with current postpartum complication
647.11	ICD-9-CM	Diagnosis	Maternal gonorrhea with delivery
647.12	ICD-9-CM	Diagnosis	Maternal gonorrhea, with delivery, with current postpartum complication
647.21	ICD-9-CM	Diagnosis	Other maternal venereal diseases with delivery
647.22	ICD-9-CM	Diagnosis	Other maternal venereal diseases with delivery, with current postpartum complication
647.31	ICD-9-CM	Diagnosis	Maternal tuberculosis with delivery
647.32	ICD-9-CM	Diagnosis	Maternal tuberculosis with delivery, with current postpartum complication
647.41	ICD-9-CM	Diagnosis	Maternal malaria with delivery
647.42	ICD-9-CM	Diagnosis	Maternal malaria with delivery, with current postpartum complication
647.51	ICD-9-CM	Diagnosis	Maternal rubella with delivery
647.52	ICD-9-CM	Diagnosis	Maternal rubella with delivery, with current postpartum complication
647.61	ICD-9-CM	Diagnosis	Other maternal viral disease with delivery
647.62	ICD-9-CM	Diagnosis	Other maternal viral disease with delivery, with current postpartum complication
647.81	ICD-9-CM	Diagnosis	Other specified maternal infectious and parasitic disease with delivery
647.82	ICD-9-CM	Diagnosis	Other specified maternal infectious and parasitic disease with delivery, with current postpartum complication
647.91	ICD-9-CM	Diagnosis	Unspecified maternal infection or infestation with delivery
647.92	ICD-9-CM	Diagnosis	Unspecified maternal infection or infestation with delivery, with current postpartum complication
648.01	ICD-9-CM	Diagnosis	Maternal diabetes mellitus with delivery
648.02	ICD-9-CM	Diagnosis	Maternal diabetes mellitus with delivery, with current postpartum complication
648.11	ICD-9-CM	Diagnosis	Maternal thyroid dysfunction with delivery, with or without mention of antepartum condition
648.12	ICD-9-CM	Diagnosis	Maternal thyroid dysfunction with delivery, with current postpartum complication
648.21	ICD-9-CM	Diagnosis	Maternal anemia, with delivery
648.22	ICD-9-CM	Diagnosis	Maternal anemia with delivery, with current postpartum complication
648.31	ICD-9-CM	Diagnosis	Maternal drug dependence, with delivery
648.32	ICD-9-CM	Diagnosis	Maternal drug dependence, with delivery, with current postpartum complication
648.41	ICD-9-CM	Diagnosis	Maternal mental disorders, with delivery
648.42	ICD-9-CM	Diagnosis	Maternal mental disorders, with delivery, with current postpartum complication
648.51	ICD-9-CM	Diagnosis	Maternal congenital cardiovascular disorders, with delivery
648.52	ICD-9-CM	Diagnosis	Maternal congenital cardiovascular disorders, with delivery, with current postpartum complication
648.61	ICD-9-CM	Diagnosis	Other maternal cardiovascular diseases, with delivery

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
648.62	ICD-9-CM	Diagnosis	Other maternal cardiovascular diseases, with delivery, with current postpartum complication
648.71	ICD-9-CM	Diagnosis	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery
648.72	ICD-9-CM	Diagnosis	Bone and joint disorders of maternal back, pelvis, and lower limbs, with delivery, with current postpartum complication
648.81	ICD-9-CM	Diagnosis	Abnormal maternal glucose tolerance, with delivery
648.82	ICD-9-CM	Diagnosis	Abnormal maternal glucose tolerance, with delivery, with current postpartum complication
648.91	ICD-9-CM	Diagnosis	Other current maternal conditions classifiable elsewhere, with delivery
648.92	ICD-9-CM	Diagnosis	Other current maternal conditions classifiable elsewhere, with delivery, with current postpartum complication
649.01	ICD-9-CM	Diagnosis	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
649.02	ICD-9-CM	Diagnosis	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
649.11	ICD-9-CM	Diagnosis	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
649.12	ICD-9-CM	Diagnosis	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
649.21	ICD-9-CM	Diagnosis	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
649.22	ICD-9-CM	Diagnosis	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
649.31	ICD-9-CM	Diagnosis	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
649.32	ICD-9-CM	Diagnosis	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
649.41	ICD-9-CM	Diagnosis	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
649.42	ICD-9-CM	Diagnosis	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
649.51	ICD-9-CM	Diagnosis	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition
649.61	ICD-9-CM	Diagnosis	Uterine size date discrepancy, delivered, with or without mention of antepartum condition
649.62	ICD-9-CM	Diagnosis	Uterine size date discrepancy, delivered, with mention of postpartum complication
649.71	ICD-9-CM	Diagnosis	Cervical shortening, delivered, with or without mention of antepartum condition
649.81	ICD-9-CM	Diagnosis	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with or without mention of antepartum condition

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
654.31	ICD-9-CM	Diagnosis	Retroverted and incarcerated gravid uterus, delivered
654.32	ICD-9-CM	Diagnosis	Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication
654.41	ICD-9-CM	Diagnosis	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered
654.42	ICD-9-CM	Diagnosis	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication
654.51	ICD-9-CM	Diagnosis	Cervical incompetence, delivered
654.52	ICD-9-CM	Diagnosis	Cervical incompetence, delivered, with mention of postpartum complication
654.61	ICD-9-CM	Diagnosis	Other congenital or acquired abnormality of cervix, with delivery
654.62	ICD-9-CM	Diagnosis	Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication
654.71	ICD-9-CM	Diagnosis	Congenital or acquired abnormality of vagina, with delivery
654.72	ICD-9-CM	Diagnosis	Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication
654.81	ICD-9-CM	Diagnosis	Congenital or acquired abnormality of vulva, with delivery
654.82	ICD-9-CM	Diagnosis	Congenital or acquired abnormality of vulva, delivered, with mention of postpartum complication
654.91	ICD-9-CM	Diagnosis	Other and unspecified abnormality of organs and soft tissues of pelvis, with delivery
654.92	ICD-9-CM	Diagnosis	Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication
655.01	ICD-9-CM	Diagnosis	Central nervous system malformation in fetus, with delivery
655.11	ICD-9-CM	Diagnosis	Chromosomal abnormality in fetus, affecting management of mother, with delivery
655.21	ICD-9-CM	Diagnosis	Hereditary disease in family possibly affecting fetus, affecting management of mother, with delivery
655.31	ICD-9-CM	Diagnosis	Suspected damage to fetus from viral disease in mother, affecting management of mother, with delivery
655.41	ICD-9-CM	Diagnosis	Suspected damage to fetus from other disease in mother, affecting management of mother, with delivery
655.51	ICD-9-CM	Diagnosis	Suspected damage to fetus from drugs, affecting management of mother, delivered
655.61	ICD-9-CM	Diagnosis	Suspected damage to fetus from radiation, affecting management of mother, delivered
655.71	ICD-9-CM	Diagnosis	Decreased fetal movements, affecting management of mother, delivered
655.81	ICD-9-CM	Diagnosis	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivery
655.91	ICD-9-CM	Diagnosis	Unspecified fetal abnormality affecting management of mother, delivery
656.01	ICD-9-CM	Diagnosis	Fetal-maternal hemorrhage, with delivery
656.11	ICD-9-CM	Diagnosis	Rhesus isoimmunization affecting management of mother, delivered
656.21	ICD-9-CM	Diagnosis	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, delivered
656.31	ICD-9-CM	Diagnosis	Fetal distress affecting management of mother, delivered
656.41	ICD-9-CM	Diagnosis	Intrauterine death affecting management of mother, delivered
656.51	ICD-9-CM	Diagnosis	Poor fetal growth, affecting management of mother, delivered

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
675.82	ICD-9-CM	Diagnosis	Other specified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication
675.91	ICD-9-CM	Diagnosis	Unspecified infection of the breast and nipple, delivered, with or without mention of antepartum condition
675.92	ICD-9-CM	Diagnosis	Unspecified infection of the breast and nipple, delivered, with mention of postpartum complication
676.01	ICD-9-CM	Diagnosis	Retracted nipple, delivered, with or without mention of antepartum condition
676.02	ICD-9-CM	Diagnosis	Retracted nipple, delivered, with mention of postpartum complication
676.11	ICD-9-CM	Diagnosis	Cracked nipple, delivered, with or without mention of antepartum condition
676.12	ICD-9-CM	Diagnosis	Cracked nipple, delivered, with mention of postpartum complication
676.21	ICD-9-CM	Diagnosis	Engorgement of breasts, delivered, with or without mention of antepartum condition
676.22	ICD-9-CM	Diagnosis	Engorgement of breasts, delivered, with mention of postpartum complication
676.31	ICD-9-CM	Diagnosis	Other and unspecified disorder of breast associated with childbirth, delivered, with or without mention of antepartum condition
676.32	ICD-9-CM	Diagnosis	Other and unspecified disorder of breast associated with childbirth, delivered, with mention of postpartum complication
676.41	ICD-9-CM	Diagnosis	Failure of lactation, with delivery, with or without mention of antepartum condition
676.42	ICD-9-CM	Diagnosis	Failure of lactation, with delivery, with mention of postpartum complication
676.51	ICD-9-CM	Diagnosis	Suppressed lactation, with delivery, with or without mention of antepartum condition
676.52	ICD-9-CM	Diagnosis	Suppressed lactation, with delivery, with mention of postpartum complication
676.61	ICD-9-CM	Diagnosis	Galactorrhea, with delivery, with or without mention of antepartum condition
676.62	ICD-9-CM	Diagnosis	Galactorrhea, with delivery, with mention of postpartum complication
676.81	ICD-9-CM	Diagnosis	Other disorder of lactation, with delivery, with or without mention of antepartum condition
676.82	ICD-9-CM	Diagnosis	Other disorder of lactation, with delivery, with mention of postpartum complication
676.91	ICD-9-CM	Diagnosis	Unspecified disorder of lactation, with delivery, with or without mention of antepartum condition
72	ICD-9-CM	Procedure	Forceps, vacuum, and breech delivery
73	ICD-9-CM	Procedure	Other procedures inducing or assisting delivery
720	ICD-9-CM	Procedure	Low forceps operation
721	ICD-9-CM	Procedure	Low forceps operation with episiotomy
722	ICD-9-CM	Procedure	Mid forceps operation
723	ICD-9-CM	Procedure	High forceps operation
724	ICD-9-CM	Procedure	Forceps rotation of fetal head
725	ICD-9-CM	Procedure	Breech extraction
726	ICD-9-CM	Procedure	Forceps application to aftercoming head
727	ICD-9-CM	Procedure	Vacuum extraction
728	ICD-9-CM	Procedure	Other specified instrumental delivery
729	ICD-9-CM	Procedure	Unspecified instrumental delivery
730	ICD-9-CM	Procedure	Artificial rupture of membranes
731	ICD-9-CM	Procedure	Other surgical induction of labor
732	ICD-9-CM	Procedure	Internal and combined version and extraction

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
733	ICD-9-CM	Procedure	Failed forceps
734	ICD-9-CM	Procedure	Medical induction of labor
735	ICD-9-CM	Procedure	Manually assisted delivery
736	ICD-9-CM	Procedure	Episiotomy
738	ICD-9-CM	Procedure	Operations on fetus to facilitate delivery
739	ICD-9-CM	Procedure	Other operations assisting delivery
740	ICD-9-CM	Procedure	Classical cesarean section
741	ICD-9-CM	Procedure	Low cervical cesarean section
742	ICD-9-CM	Procedure	Extraperitoneal cesarean section
744	ICD-9-CM	Procedure	Cesarean section of other specified type
749	ICD-9-CM	Procedure	Cesarean section of unspecified type
722.1	ICD-9-CM	Procedure	Mid forceps operation with episiotomy
722.9	ICD-9-CM	Procedure	Other mid forceps operation
723.1	ICD-9-CM	Procedure	High forceps operation with episiotomy
723.9	ICD-9-CM	Procedure	Other high forceps operation
725.1	ICD-9-CM	Procedure	Partial breech extraction with forceps to aftercoming head
725.2	ICD-9-CM	Procedure	Other partial breech extraction
725.3	ICD-9-CM	Procedure	Total breech extraction with forceps to aftercoming head
725.4	ICD-9-CM	Procedure	Other total breech extraction
727.1	ICD-9-CM	Procedure	Vacuum extraction with episiotomy
727.9	ICD-9-CM	Procedure	Other vacuum extraction
730.1	ICD-9-CM	Procedure	Induction of labor by artificial rupture of membranes
730.9	ICD-9-CM	Procedure	Other artificial rupture of membranes
732.1	ICD-9-CM	Procedure	Internal and combined version without extraction
732.2	ICD-9-CM	Procedure	Internal and combined version with extraction
735.1	ICD-9-CM	Procedure	Manual rotation of fetal head
735.9	ICD-9-CM	Procedure	Other manually assisted delivery
739.1	ICD-9-CM	Procedure	External version to assist delivery
739.2	ICD-9-CM	Procedure	Replacement of prolapsed umbilical cord
739.3	ICD-9-CM	Procedure	Incision of cervix to assist delivery
739.4	ICD-9-CM	Procedure	Pubiotomy to assist delivery
739.9	ICD-9-CM	Procedure	Other operations to assist delivery
749.9	ICD-9-CM	Procedure	Other cesarean section of unspecified type
676.92	ICD-9-CM	Diagnosis	Unspecified disorder of lactation, with delivery, with mention of postpartum complication
678.01	ICD-9-CM	Diagnosis	Fetal hematologic conditions, delivered, with or without mention of antepartum condition
678.11	ICD-9-CM	Diagnosis	Fetal conjoined twins, delivered, with or without mention of antepartum condition
679.01	ICD-9-CM	Diagnosis	Maternal complications from in utero procedure, delivered, with or without mention of antepartum condition
679.02	ICD-9-CM	Diagnosis	Maternal complications from in utero procedure, delivered, with mention of postpartum complication

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
679.11	ICD-9-CM	Diagnosis	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition
679.12	ICD-9-CM	Diagnosis	Fetal complications from in utero procedure, delivered, with mention of postpartum complication
V27	ICD-9-CM	Diagnosis	Outcome of delivery
V27.0	ICD-9-CM	Diagnosis	Outcome of delivery, single liveborn
V27.1	ICD-9-CM	Diagnosis	Outcome of delivery, single stillborn
V27.2	ICD-9-CM	Diagnosis	Outcome of delivery, twins, both liveborn
V27.3	ICD-9-CM	Diagnosis	Outcome of delivery, twins, one liveborn and one stillborn
V27.4	ICD-9-CM	Diagnosis	Outcome of delivery, twins, both stillborn
V27.5	ICD-9-CM	Diagnosis	Outcome of delivery, other multiple birth, all liveborn
V27.6	ICD-9-CM	Diagnosis	Outcome of delivery, other multiple birth, some liveborn
V27.7	ICD-9-CM	Diagnosis	Outcome of delivery, other multiple birth, all stillborn
V27.9	ICD-9-CM	Diagnosis	Outcome of delivery, unspecified
V30	ICD-9-CM	Diagnosis	Single liveborn
V30.0	ICD-9-CM	Diagnosis	Single liveborn, born in hospital
V30.00	ICD-9-CM	Diagnosis	Single liveborn, born in hospital, delivered without mention of cesarean delivery
V30.01	ICD-9-CM	Diagnosis	Single liveborn, born in hospital, delivered by cesarean delivery
V30.1	ICD-9-CM	Diagnosis	Single liveborn, born before admission to hospital
V30.2	ICD-9-CM	Diagnosis	Single liveborn, born outside hospital and not hospitalized
V31	ICD-9-CM	Diagnosis	Twin birth, mate liveborn
V31.0	ICD-9-CM	Diagnosis	Twin, mate liveborn, born in hospital
V31.00	ICD-9-CM	Diagnosis	Twin, mate liveborn, born in hospital, delivered without mention of cesarean delivery
V31.01	ICD-9-CM	Diagnosis	Twin, mate liveborn, born in hospital, delivered by cesarean delivery
V31.1	ICD-9-CM	Diagnosis	Twin birth, mate liveborn, born before admission to hospital
V31.2	ICD-9-CM	Diagnosis	Twin birth, mate liveborn, born outside hospital and not hospitalized
V32	ICD-9-CM	Diagnosis	Twin birth, mate stillborn
V32.0	ICD-9-CM	Diagnosis	Twin, mate stillborn, born in hospital
V32.00	ICD-9-CM	Diagnosis	Twin, mate stillborn, born in hospital, delivered without mention of cesarean delivery
V32.01	ICD-9-CM	Diagnosis	Twin, mate stillborn, born in hospital, delivered by cesarean delivery
V32.1	ICD-9-CM	Diagnosis	Twin birth, mate stillborn, born before admission to hospital
V32.2	ICD-9-CM	Diagnosis	Twin birth, mate stillborn, born outside hospital and not hospitalized
V33	ICD-9-CM	Diagnosis	Twin birth, unspecified whether mate liveborn or stillborn
V33.0	ICD-9-CM	Diagnosis	Twin, unspecified, born in hospital
V33.00	ICD-9-CM	Diagnosis	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery
V33.01	ICD-9-CM	Diagnosis	Twin, unspecified whether mate stillborn or liveborn, born in hospital, delivered by cesarean delivery
V33.1	ICD-9-CM	Diagnosis	Twin birth, unspecified whether mate liveborn or stillborn, born before admission to hospital
V33.2	ICD-9-CM	Diagnosis	Twin birth, unspecified whether mate liveborn or stillborn, born outside hospital and not hospitalized

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
V34	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all liveborn
V34.0	ICD-9-CM	Diagnosis	Other multiple, mates all liveborn, born in hospital
V34.00	ICD-9-CM	Diagnosis	Other multiple, mates all liveborn, born in hospital, delivered without mention of cesarean delivery
V34.01	ICD-9-CM	Diagnosis	Other multiple, mates all liveborn, born in hospital, delivered by cesarean delivery
V34.1	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all liveborn, born before admission to hospital
V34.2	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all liveborn, born outside hospital and not hospitalized
V35	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all stillborn
V35.0	ICD-9-CM	Diagnosis	Other multiple, mates all stillborn, born in hospital
V35.00	ICD-9-CM	Diagnosis	Other multiple, mates all stillborn, born in hospital, delivered without mention of cesarean delivery
V35.01	ICD-9-CM	Diagnosis	Other multiple, mates all stillborn, born in hospital, delivered by cesarean delivery
V35.1	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all stillborn, born before admission to hospital
V35.2	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates all stillborn, born outside of hospital and not hospitalized
V36	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates liveborn and stillborn
V36.0	ICD-9-CM	Diagnosis	Other multiple, mates liveborn and stillborn, born in hospital
V36.00	ICD-9-CM	Diagnosis	Other multiple, mates liveborn and stillborn, born in hospital, delivered without mention of cesarean delivery
V36.01	ICD-9-CM	Diagnosis	Other multiple, mates liveborn and stillborn, born in hospital, delivered by cesarean delivery
V36.1	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates liveborn and stillborn, born before admission to hospital
V36.2	ICD-9-CM	Diagnosis	Other multiple birth (three or more), mates liveborn and stillborn, born outside hospital and not hospitalized
V37	ICD-9-CM	Diagnosis	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn
V37.0	ICD-9-CM	Diagnosis	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital
V37.00	ICD-9-CM	Diagnosis	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered without mention of cesarean delivery
V37.01	ICD-9-CM	Diagnosis	Other multiple, unspecified whether mates stillborn or liveborn, born in hospital, delivered by cesarean delivery
V37.1	ICD-9-CM	Diagnosis	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born before admission to hospital
V37.2	ICD-9-CM	Diagnosis	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born outside of hospital
V39	ICD-9-CM	Diagnosis	Liveborn, unspecified whether single, twin, or multiple
V39.0	ICD-9-CM	Diagnosis	Other liveborn, unspecified whether single, twin, or multiple, born in hospital
V39.00	ICD-9-CM	Diagnosis	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered without mention of cesarean delivery

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
V39.01	ICD-9-CM	Diagnosis	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered by cesarean
V39.1	ICD-9-CM	Diagnosis	Liveborn, unspecified whether single, twin or multiple, born before admission to hospital
V39.2	ICD-9-CM	Diagnosis	Liveborn, unspecified whether single, twin or multiple, born outside hospital and not hospitalized
O10.02	ICD-10-CM	Diagnosis	Pre-existing essential hypertension complicating childbirth
O10.12	ICD-10-CM	Diagnosis	Pre-existing hypertensive heart disease complicating childbirth
O10.22	ICD-10-CM	Diagnosis	Pre-existing hypertensive chronic kidney disease complicating childbirth
O10.32	ICD-10-CM	Diagnosis	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth
O10.42	ICD-10-CM	Diagnosis	Pre-existing secondary hypertension complicating childbirth
O10.92	ICD-10-CM	Diagnosis	Unspecified pre-existing hypertension complicating childbirth
O11.4	ICD-10-CM	Diagnosis	Pre-existing hypertension with pre-eclampsia, complicating childbirth
O12.04	ICD-10-CM	Diagnosis	Gestational edema, complicating childbirth
O12.14	ICD-10-CM	Diagnosis	Gestational proteinuria, complicating childbirth
O12.24	ICD-10-CM	Diagnosis	Gestational edema with proteinuria, complicating childbirth
O13.4	ICD-10-CM	Diagnosis	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth
O14.04	ICD-10-CM	Diagnosis	Mild to moderate pre-eclampsia, complicating childbirth
O14.14	ICD-10-CM	Diagnosis	Severe pre-eclampsia complicating childbirth
O14.24	ICD-10-CM	Diagnosis	HELLP syndrome, complicating childbirth
O14.94	ICD-10-CM	Diagnosis	Unspecified pre-eclampsia, complicating childbirth
O16.4	ICD-10-CM	Diagnosis	Unspecified maternal hypertension, complicating childbirth
O24.02	ICD-10-CM	Diagnosis	Pre-existing type 1 diabetes mellitus, in childbirth
O24.12	ICD-10-CM	Diagnosis	Pre-existing type 2 diabetes mellitus, in childbirth
O24.32	ICD-10-CM	Diagnosis	Unspecified pre-existing diabetes mellitus in childbirth
O24.420	ICD-10-CM	Diagnosis	Gestational diabetes mellitus in childbirth, diet controlled
O24.424	ICD-10-CM	Diagnosis	Gestational diabetes mellitus in childbirth, insulin controlled
O24.425	ICD-10-CM	Diagnosis	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs
O24.429	ICD-10-CM	Diagnosis	Gestational diabetes mellitus in childbirth, unspecified control
O24.82	ICD-10-CM	Diagnosis	Other pre-existing diabetes mellitus in childbirth
O24.92	ICD-10-CM	Diagnosis	Unspecified diabetes mellitus in childbirth
O25.2	ICD-10-CM	Diagnosis	Malnutrition in childbirth
O26.62	ICD-10-CM	Diagnosis	Liver and biliary tract disorders in childbirth
O26.72	ICD-10-CM	Diagnosis	Subluxation of symphysis (pubis) in childbirth
O60.12X0	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified
O60.12X1	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, fetus 1
O60.12X2	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, fetus 2
O60.12X3	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, fetus 3
O60.12X4	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, fetus 4
O60.12X5	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, fetus 5
O60.12X9	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery second trimester, other fetus

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
O60.13X0	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified
O60.13X1	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, fetus 1
O60.13X2	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, fetus 2
O60.13X3	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, fetus 3
O60.13X4	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, fetus 4
O60.13X5	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, fetus 5
O60.13X9	ICD-10-CM	Diagnosis	Preterm labor second trimester with preterm delivery third trimester, other fetus
O60.14X0	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified
O60.14X1	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, fetus 1
O60.14X2	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, fetus 2
O60.14X3	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, fetus 3
O60.14X4	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, fetus 4
O60.14X5	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, fetus 5
O60.14X9	ICD-10-CM	Diagnosis	Preterm labor third trimester with preterm delivery third trimester, other fetus
O60.22X0	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, not applicable or unspecified
O60.22X1	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, fetus 1
O60.22X2	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, fetus 2
O60.22X3	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, fetus 3
O60.22X4	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, fetus 4
O60.22X5	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, fetus 5
O60.22X9	ICD-10-CM	Diagnosis	Term delivery with preterm labor, second trimester, other fetus
O60.23X0	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, not applicable or unspecified
O60.23X1	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, fetus 1
O60.23X2	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, fetus 2
O60.23X3	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, fetus 3
O60.23X4	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, fetus 4
O60.23X5	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, fetus 5
O60.23X9	ICD-10-CM	Diagnosis	Term delivery with preterm labor, third trimester, other fetus
O63.2	ICD-10-CM	Diagnosis	Delayed delivery of second twin, triplet, etc
O67.0	ICD-10-CM	Diagnosis	Intrapartum hemorrhage with coagulation defect
O67.8	ICD-10-CM	Diagnosis	Other intrapartum hemorrhage
O67.9	ICD-10-CM	Diagnosis	Intrapartum hemorrhage, unspecified
O68.	ICD-10-CM	Diagnosis	Labor and delivery complicated by abnormality of fetal acid-base balance
O69.0XX0	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, not applicable or unspecified
O69.0XX1	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, fetus 1
O69.0XX2	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, fetus 2
O69.0XX3	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, fetus 3
O69.0XX4	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, fetus 4
O69.0XX5	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, fetus 5
O69.0XX9	ICD-10-CM	Diagnosis	Labor and delivery complicated by prolapse of cord, other fetus

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

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

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
O69.81X3	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord around neck, without compression, fetus 3
O69.81X4	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord around neck, without compression, fetus 4
O69.81X5	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord around neck, without compression, fetus 5
O69.81X9	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord around neck, without compression, other fetus
O69.82X0	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified
O69.82X1	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, fetus 1
O69.82X2	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, fetus 2
O69.82X3	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, fetus 3
O69.82X4	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, fetus 4
O69.82X5	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, fetus 5
O69.82X9	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord entanglement, without compression, other fetus
O69.89X0	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, not applicable or unspecified
O69.89X1	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, fetus 1
O69.89X2	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, fetus 2
O69.89X3	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, fetus 3
O69.89X4	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, fetus 4
O69.89X5	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, fetus 5
O69.89X9	ICD-10-CM	Diagnosis	Labor and delivery complicated by other cord complications, other fetus
O69.9XX0	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, not applicable or unspecified
O69.9XX1	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, fetus 1
O69.9XX2	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, fetus 2
O69.9XX3	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, fetus 3
O69.9XX4	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, fetus 4
O69.9XX5	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, fetus 5
O69.9XX9	ICD-10-CM	Diagnosis	Labor and delivery complicated by cord complication, unspecified, other fetus
O70.0	ICD-10-CM	Diagnosis	First degree perineal laceration during delivery
O70.1	ICD-10-CM	Diagnosis	Second degree perineal laceration during delivery
O70.20	ICD-10-CM	Diagnosis	Third degree perineal laceration during delivery, unspecified
O70.21	ICD-10-CM	Diagnosis	Third degree perineal laceration during delivery, IIIa
O70.22	ICD-10-CM	Diagnosis	Third degree perineal laceration during delivery, IIIb
O70.23	ICD-10-CM	Diagnosis	Third degree perineal laceration during delivery, IIIc
O70.3	ICD-10-CM	Diagnosis	Fourth degree perineal laceration during delivery
O70.4	ICD-10-CM	Diagnosis	Anal sphincter tear complicating delivery, not associated with third degree laceration

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
O70.9	ICD-10-CM	Diagnosis	Perineal laceration during delivery, unspecified
O74.0	ICD-10-CM	Diagnosis	Aspiration pneumonitis due to anesthesia during labor and delivery
O74.1	ICD-10-CM	Diagnosis	Other pulmonary complications of anesthesia during labor and delivery
O74.2	ICD-10-CM	Diagnosis	Cardiac complications of anesthesia during labor and delivery
O74.3	ICD-10-CM	Diagnosis	Central nervous system complications of anesthesia during labor and delivery
O74.4	ICD-10-CM	Diagnosis	Toxic reaction to local anesthesia during labor and delivery
O74.5	ICD-10-CM	Diagnosis	Spinal and epidural anesthesia-induced headache during labor and delivery
O74.6	ICD-10-CM	Diagnosis	Other complications of spinal and epidural anesthesia during labor and delivery
O74.7	ICD-10-CM	Diagnosis	Failed or difficult intubation for anesthesia during labor and delivery
O74.8	ICD-10-CM	Diagnosis	Other complications of anesthesia during labor and delivery
O74.9	ICD-10-CM	Diagnosis	Complication of anesthesia during labor and delivery, unspecified
O75.0	ICD-10-CM	Diagnosis	Maternal distress during labor and delivery
O75.1	ICD-10-CM	Diagnosis	Shock during or following labor and delivery
O75.5	ICD-10-CM	Diagnosis	Delayed delivery after artificial rupture of membranes
O75.81	ICD-10-CM	Diagnosis	Maternal exhaustion complicating labor and delivery
O75.82	ICD-10-CM	Diagnosis	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section
O75.89	ICD-10-CM	Diagnosis	Other specified complications of labor and delivery
O75.9	ICD-10-CM	Diagnosis	Complication of labor and delivery, unspecified
O76.	ICD-10-CM	Diagnosis	Abnormality in fetal heart rate and rhythm complicating labor and delivery
O77.0	ICD-10-CM	Diagnosis	Labor and delivery complicated by meconium in amniotic fluid
O77.8	ICD-10-CM	Diagnosis	Labor and delivery complicated by other evidence of fetal stress
O77.9	ICD-10-CM	Diagnosis	Labor and delivery complicated by fetal stress, unspecified
O80.	ICD-10-CM	Diagnosis	Encounter for full-term uncomplicated delivery
O82.	ICD-10-CM	Diagnosis	Encounter for cesarean delivery without indication
O88.02	ICD-10-CM	Diagnosis	Air embolism in childbirth
O88.12	ICD-10-CM	Diagnosis	Amniotic fluid embolism in childbirth
O88.22	ICD-10-CM	Diagnosis	Thromboembolism in childbirth
O88.32	ICD-10-CM	Diagnosis	Pyemic and septic embolism in childbirth
O88.82	ICD-10-CM	Diagnosis	Other embolism in childbirth
O98.02	ICD-10-CM	Diagnosis	Tuberculosis complicating childbirth
O98.12	ICD-10-CM	Diagnosis	Syphilis complicating childbirth
O98.22	ICD-10-CM	Diagnosis	Gonorrhea complicating childbirth
O98.32	ICD-10-CM	Diagnosis	Other infections with a predominantly sexual mode of transmission complicating childbirth
O98.42	ICD-10-CM	Diagnosis	Viral hepatitis complicating childbirth
O98.52	ICD-10-CM	Diagnosis	Other viral diseases complicating childbirth
O98.62	ICD-10-CM	Diagnosis	Protozoal diseases complicating childbirth
O98.72	ICD-10-CM	Diagnosis	Human immunodeficiency virus [HIV] disease complicating childbirth
O98.82	ICD-10-CM	Diagnosis	Other maternal infectious and parasitic diseases complicating childbirth
O98.92	ICD-10-CM	Diagnosis	Unspecified maternal infectious and parasitic disease complicating childbirth
O99.02	ICD-10-CM	Diagnosis	Anemia complicating childbirth

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
O99.12	ICD-10-CM	Diagnosis	Other diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism complicating childbirth
O99.214	ICD-10-CM	Diagnosis	Obesity complicating childbirth
O99.284	ICD-10-CM	Diagnosis	Endocrine, nutritional and metabolic diseases complicating childbirth
O99.314	ICD-10-CM	Diagnosis	Alcohol use complicating childbirth
O99.324	ICD-10-CM	Diagnosis	Drug use complicating childbirth
O99.334	ICD-10-CM	Diagnosis	Smoking (tobacco) complicating childbirth
O99.344	ICD-10-CM	Diagnosis	Other mental disorders complicating childbirth
O99.354	ICD-10-CM	Diagnosis	Diseases of the nervous system complicating childbirth
O99.42	ICD-10-CM	Diagnosis	Diseases of the circulatory system complicating childbirth
O99.52	ICD-10-CM	Diagnosis	Diseases of the respiratory system complicating childbirth
O99.62	ICD-10-CM	Diagnosis	Diseases of the digestive system complicating childbirth
O99.72	ICD-10-CM	Diagnosis	Diseases of the skin and subcutaneous tissue complicating childbirth
O99.814	ICD-10-CM	Diagnosis	Abnormal glucose complicating childbirth
O99.824	ICD-10-CM	Diagnosis	Streptococcus B carrier state complicating childbirth
O99.834	ICD-10-CM	Diagnosis	Other infection carrier state complicating childbirth
O99.844	ICD-10-CM	Diagnosis	Bariatric surgery status complicating childbirth
O9A.12	ICD-10-CM	Diagnosis	Malignant neoplasm complicating childbirth
O9A.22	ICD-10-CM	Diagnosis	Injury, poisoning and certain other consequences of external causes complicating childbirth
O9A.32	ICD-10-CM	Diagnosis	Physical abuse complicating childbirth
O9A.42	ICD-10-CM	Diagnosis	Sexual abuse complicating childbirth
O9A.52	ICD-10-CM	Diagnosis	Psychological abuse complicating childbirth
P03.0	ICD-10-CM	Diagnosis	Newborn affected by breech delivery and extraction
P03.2	ICD-10-CM	Diagnosis	Newborn affected by forceps delivery
P03.3	ICD-10-CM	Diagnosis	Newborn affected by delivery by vacuum extractor [ventouse]
P03.4	ICD-10-CM	Diagnosis	Newborn affected by Cesarean delivery
P03.5	ICD-10-CM	Diagnosis	Newborn affected by precipitate delivery
P07.00	ICD-10-CM	Diagnosis	Extremely low birth weight newborn, unspecified weight
P07.01	ICD-10-CM	Diagnosis	Extremely low birth weight newborn, less than 500 grams
P07.02	ICD-10-CM	Diagnosis	Extremely low birth weight newborn, 500-749. grams
P07.03	ICD-10-CM	Diagnosis	Extremely low birth weight newborn, 750-999 grams
P07.10	ICD-10-CM	Diagnosis	Other low birth weight newborn, unspecified weight
P07.14	ICD-10-CM	Diagnosis	Other low birth weight newborn, 1000-1249 grams
P07.15	ICD-10-CM	Diagnosis	Other low birth weight newborn, 1250-1499 grams
P07.16	ICD-10-CM	Diagnosis	Other low birth weight newborn, 1500-1749. grams
P07.17	ICD-10-CM	Diagnosis	Other low birth weight newborn, 1750-1999 grams
P07.18	ICD-10-CM	Diagnosis	Other low birth weight newborn, 2000-2499 grams
P07.20	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, unspecified weeks of gestation
P07.21	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age less than 23 completed weeks
P07.22	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age 23 completed weeks
P07.23	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age 24 completed weeks

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
P07.24	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age 25 completed weeks
P07.25	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age 26 completed weeks
P07.26	ICD-10-CM	Diagnosis	Extreme immaturity of newborn, gestational age 27 completed weeks
P07.30	ICD-10-CM	Diagnosis	Preterm newborn, unspecified weeks of gestation
P07.31	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 28 completed weeks
P07.32	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 29 completed weeks
P07.33	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 30 completed weeks
P07.34	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 31 completed weeks
P07.35	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 32 completed weeks
P07.36	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 33 completed weeks
P07.37	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 34 completed weeks
P07.38	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 35 completed weeks
P07.39	ICD-10-CM	Diagnosis	Preterm newborn, gestational age 36 completed weeks
P08.21	ICD-10-CM	Diagnosis	Post-term newborn
P08.22	ICD-10-CM	Diagnosis	Prolonged gestation of newborn
Z37.0	ICD-10-CM	Diagnosis	Single live birth
Z37.2	ICD-10-CM	Diagnosis	Twins, both liveborn
Z37.3	ICD-10-CM	Diagnosis	Twins, one liveborn and one stillborn
Z37.50	ICD-10-CM	Diagnosis	Multiple births, unspecified, all liveborn
Z37.51	ICD-10-CM	Diagnosis	Triplets, all liveborn
Z37.52	ICD-10-CM	Diagnosis	Quadruplets, all liveborn
Z37.53	ICD-10-CM	Diagnosis	Quintuplets, all liveborn
Z37.54	ICD-10-CM	Diagnosis	Sextuplets, all liveborn
Z37.59	ICD-10-CM	Diagnosis	Other multiple births, all liveborn
Z37.60	ICD-10-CM	Diagnosis	Multiple births, unspecified, some liveborn
Z37.61	ICD-10-CM	Diagnosis	Triplets, some liveborn
Z37.62	ICD-10-CM	Diagnosis	Quadruplets, some liveborn
Z37.63	ICD-10-CM	Diagnosis	Quintuplets, some liveborn
Z37.64	ICD-10-CM	Diagnosis	Sextuplets, some liveborn
Z37.69	ICD-10-CM	Diagnosis	Other multiple births, some liveborn
Z37.9	ICD-10-CM	Diagnosis	Outcome of delivery, unspecified
Z38.00	ICD-10-CM	Diagnosis	Single liveborn infant, delivered vaginally
Z38.01	ICD-10-CM	Diagnosis	Single liveborn infant, delivered by cesarean
Z38.1	ICD-10-CM	Diagnosis	Single liveborn infant, born outside hospital
Z38.2	ICD-10-CM	Diagnosis	Single liveborn infant, unspecified as to place of birth
Z38.30	ICD-10-CM	Diagnosis	Twin liveborn infant, delivered vaginally
Z38.31	ICD-10-CM	Diagnosis	Twin liveborn infant, delivered by cesarean
Z38.4	ICD-10-CM	Diagnosis	Twin liveborn infant, born outside hospital
Z38.5	ICD-10-CM	Diagnosis	Twin liveborn infant, unspecified as to place of birth
Z38.61	ICD-10-CM	Diagnosis	Triplet liveborn infant, delivered vaginally
Z38.62	ICD-10-CM	Diagnosis	Triplet liveborn infant, delivered by cesarean
Z38.63	ICD-10-CM	Diagnosis	Quadruplet liveborn infant, delivered vaginally

Appendix C. List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes, International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, and International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System (ICD-10-CM/PCS) Diagnosis and Procedure Codes Used to Define Live-Born Deliveries in this Request

Code	Code Type	Code Category	Description
Z38.64	ICD-10-CM	Diagnosis	Quadruplet liveborn infant, delivered by cesarean
Z38.65	ICD-10-CM	Diagnosis	Quintuplet liveborn infant, delivered vaginally
Z38.66	ICD-10-CM	Diagnosis	Quintuplet liveborn infant, delivered by cesarean
Z38.68	ICD-10-CM	Diagnosis	Other multiple liveborn infant, delivered vaginally
Z38.69	ICD-10-CM	Diagnosis	Other multiple liveborn infant, delivered by cesarean
Z38.7	ICD-10-CM	Diagnosis	Other multiple liveborn infant, born outside hospital
Z38.8	ICD-10-CM	Diagnosis	Other multiple liveborn infant, unspecified as to place of birth
0W8NXZZ	ICD-10-PCS	Procedure	Division of Female Perineum, External Approach
10900ZC	ICD-10-PCS	Procedure	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Open Approach
10903ZC	ICD-10-PCS	Procedure	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Approach
10904ZC	ICD-10-PCS	Procedure	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Endoscopic Approach
10907ZC	ICD-10-PCS	Procedure	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening
10908ZC	ICD-10-PCS	Procedure	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening Endoscopic
10D00Z0	ICD-10-PCS	Procedure	Extraction of Products of Conception, Classical, Open Approach
10D00Z1	ICD-10-PCS	Procedure	Extraction of Products of Conception, Low Cervical, Open Approach
10D00Z2	ICD-10-PCS	Procedure	Extraction of Products of Conception, Extraperitoneal, Open Approach
10D07Z3	ICD-10-PCS	Procedure	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening
10D07Z4	ICD-10-PCS	Procedure	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening
10D07Z5	ICD-10-PCS	Procedure	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening
10D07Z6	ICD-10-PCS	Procedure	Extraction of Products of Conception, Vacuum, Via Natural or Artificial Opening
10D07Z7	ICD-10-PCS	Procedure	Extraction of Products of Conception, Internal Version, Via Natural or Artificial Opening
10D07Z8	ICD-10-PCS	Procedure	Extraction of Products of Conception, Other, Via Natural or Artificial Opening
10E0XZZ	ICD-10-PCS	Procedure	Delivery of Products of Conception, External Approach
10S07ZZ	ICD-10-PCS	Procedure	Reposition Products of Conception, Via Natural or Artificial Opening

Appendix D. List of Generic Names Used to Define Exposures in this Request

Generic Name

avanafil

tadalafil

vardenafil HCl

sildenafil citrate

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

Exposure	Code	Description	Code Type
Sildenafil	S0090	Sildenafil citrate, 25 mg	HCPCS

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

Covariate	Code	Description	Code Type
Sexual implications	302.73	Female orgasmic disorder	ICD-9-CM
Sexual implications	F52.22	Female sexual arousal disorder	ICD-10-CM
Sexual implications	F52.31	Female orgasmic disorder	ICD-10-CM
Sexual implications	302.70	Psychosexual dysfunction, unspecified	ICD-9-CM
Sexual implications	302.7	Psychosexual dysfunction	ICD-9-CM
Sexual implications	302.71	Hypoactive sexual desire disorder	ICD-9-CM
Sexual implications	302.72	Psychosexual dysfunction with inhibited sexual excitement	ICD-9-CM
Sexual implications	302.76	Dyspareunia, psychogenic	ICD-9-CM
Sexual implications	302.79	Psychosexual dysfunction with other specified psychosexual dysfunctions	ICD-9-CM
Sexual implications	302.8	Other specified psychosexual disorders	ICD-9-CM
Sexual implications	302.89	Other specified psychosexual disorder	ICD-9-CM
Sexual implications	302.9	Unspecified psychosexual disorder	ICD-9-CM
Sexual implications	306.51	Psychogenic vaginismus	ICD-9-CM
Sexual implications	V41.7	Problems with sexual function	ICD-9-CM
Sexual implications	F52	Sexual dysfunction not due to a substance or known physiological condition	ICD-10-CM
Sexual implications	F52.0	Hypoactive sexual desire disorder	ICD-10-CM
Sexual implications	F52.1	Sexual aversion disorder	ICD-10-CM
Sexual implications	F52.2	Sexual arousal disorders	ICD-10-CM
Sexual implications	F52.3	Orgasmic disorder	ICD-10-CM
Sexual implications	F52.5	Vaginismus not due to a substance or known physiological condition	ICD-10-CM
Sexual implications	F52.6	Dyspareunia not due to a substance or known physiological condition	ICD-10-CM
Sexual implications	F52.8	Other sexual dysfunction not due to a substance or known physiological condition	ICD-10-CM
Sexual implications	F52.9	Unspecified sexual dysfunction not due to a substance or known physiological condition	ICD-10-CM
Sexual implications	F66	Other sexual disorders	ICD-10-CM
Sexual implications	R37	Sexual dysfunction, unspecified	ICD-10-CM
Urogenital implications	403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM

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

Covariate	Code	Description	Code Type
Urogenital implications	404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
Urogenital implications	404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM
Urogenital implications	585.1	Chronic kidney disease, Stage I	ICD-9-CM
Urogenital implications	585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM
Urogenital implications	585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM
Urogenital implications	585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM
Urogenital implications	585.5	Chronic kidney disease, Stage V	ICD-9-CM
Urogenital implications	585.6	End stage renal disease	ICD-9-CM
Urogenital implications	585.9	Chronic kidney disease, unspecified	ICD-9-CM
Urogenital implications	E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	ICD-10-CM
Urogenital implications	E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Urogenital implications	E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Urogenital implications	E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Urogenital implications	I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM
Urogenital implications	I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM
Urogenital implications	I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM
Urogenital implications	I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM
Urogenital implications	I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM

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

Covariate	Code	Description	Code Type
Urogenital implications	I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM
Urogenital implications	N18.1	Chronic kidney disease, stage 1	ICD-10-CM
Urogenital implications	N18.2	Chronic kidney disease, stage 2 (mild)	ICD-10-CM
Urogenital implications	N18.3	Chronic kidney disease, stage 3 (moderate)	ICD-10-CM
Urogenital implications	N18.4	Chronic kidney disease, stage 4 (severe)	ICD-10-CM
Urogenital implications	N18.5	Chronic kidney disease, stage 5	ICD-10-CM
Urogenital implications	N18.6	End stage renal disease	ICD-10-CM
Urogenital implications	N18.9	Chronic kidney disease, unspecified	ICD-10-CM
Urogenital implications	585	Chronic kidney disease (CKD)	ICD-9-CM
Urogenital implications	585.1	Chronic kidney disease, Stage I	ICD-9-CM
Urogenital implications	585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM
Urogenital implications	585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM
Urogenital implications	585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM
Urogenital implications	585.5	Chronic kidney disease, Stage V	ICD-9-CM
Urogenital implications	585.6	End stage renal disease	ICD-9-CM
Urogenital implications	585.9	Chronic kidney disease, unspecified	ICD-9-CM
Urogenital implications	N18.1	Chronic kidney disease, stage 1	ICD-10-CM
Urogenital implications	N18.2	Chronic kidney disease, stage 2 (mild)	ICD-10-CM
Urogenital implications	N18.3	Chronic kidney disease, stage 3 (moderate)	ICD-10-CM
Urogenital implications	N18.4	Chronic kidney disease, stage 4 (severe)	ICD-10-CM
Urogenital implications	N18.5	Chronic kidney disease, stage 5	ICD-10-CM
Urogenital implications	N18.6	End stage renal disease	ICD-10-CM
Urogenital implications	N18.9	Chronic kidney disease, unspecified	ICD-10-CM
Urogenital implications	595.1	Chronic interstitial cystitis	ICD-9-CM
Urogenital implications	N30.10	Interstitial cystitis (chronic) without hematuria	ICD-10-CM
Urogenital implications	N30.11	Interstitial cystitis (chronic) with hematuria	ICD-10-CM
Cardiovascular implications	447.70	Aortic ectasia, unspecified site	ICD-9-CM
Cardiovascular implications	I77.819	Aortic ectasia, unspecified site	ICD-10-CM
Cardiovascular implications	428.9	Unspecified heart failure	ICD-9-CM
Cardiovascular implications	I50.9	Heart failure, unspecified	ICD-10-CM
Pulmonary implications	745.4	Ventricular septal defect	ICD-9-CM
Pulmonary implications	745.8	Other bulbus cordis anomalies and anomalies of cardiac septal closure	ICD-9-CM
Pulmonary implications	I27.83	Eisenmenger's syndrome	ICD-10-CM
Pulmonary implications	Q21.0	Ventricular septal defect	ICD-10-CM
Cutaneous implications	517.2	Lung involvement in systemic sclerosis	ICD-9-CM
Cutaneous implications	710.1	Systemic sclerosis	ICD-9-CM
Cutaneous implications	M34	Systemic sclerosis [scleroderma]	ICD-10-CM
Cutaneous implications	M34.0	Progressive systemic sclerosis	ICD-10-CM
Cutaneous implications	M34.1	CR(E)ST syndrome	ICD-10-CM
Cutaneous implications	M34.2	Systemic sclerosis induced by drug and chemical	ICD-10-CM
Cutaneous implications	M34.81	Systemic sclerosis with lung involvement	ICD-10-CM
Cutaneous implications	M34.81	Systemic sclerosis with lung involvement	ICD-10-CM
Cutaneous implications	M34.82	Systemic sclerosis with myopathy	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	M34.83	Systemic sclerosis with polyneuropathy	ICD-10-CM
Cutaneous implications	M34.89	Other systemic sclerosis	ICD-10-CM
Cutaneous implications	M34.9	Systemic sclerosis, unspecified	ICD-10-CM
Cutaneous implications	693.0	Dermatitis due to drugs and medicines taken internally	ICD-9-CM
Cutaneous implications	443.0	Raynaud's syndrome	ICD-9-CM
Cutaneous implications	173.0	Raynaud's syndrome	ICD-10-CM
Cutaneous implications	173.00	Raynaud's syndrome without gangrene	ICD-10-CM
Cutaneous implications	173.01	Raynaud's syndrome with gangrene	ICD-10-CM
Cutaneous implications	870.0	Laceration of skin of eyelid and periocular area	ICD-9-CM
Cutaneous implications	870.1	Laceration of eyelid, full-thickness, not involving lacrimal passages	ICD-9-CM
Cutaneous implications	870.2	Laceration of eyelid involving lacrimal passages	ICD-9-CM
Cutaneous implications	870.3	Penetrating wound of orbit, without mention of foreign body	ICD-9-CM
Cutaneous implications	870.4	Penetrating wound of orbit with foreign body	ICD-9-CM
Cutaneous implications	870.8	Other specified open wound of ocular adnexa	ICD-9-CM
Cutaneous implications	870.9	Unspecified open wound of ocular adnexa	ICD-9-CM
Cutaneous implications	872.00	Open wound of external ear, unspecified site, without mention of complication	ICD-9-CM
Cutaneous implications	872.01	Open wound of auricle, without mention of complication	ICD-9-CM
Cutaneous implications	872.02	Open wound of auditory canal, without mention of complication	ICD-9-CM
Cutaneous implications	872.10	Open wound of external ear, unspecified site, complicated	ICD-9-CM
Cutaneous implications	872.11	Open wound of auricle, complicated	ICD-9-CM
Cutaneous implications	872.12	Open wound of auditory canal, complicated	ICD-9-CM
Cutaneous implications	872.61	Open wound of ear drum, without mention of complication	ICD-9-CM
Cutaneous implications	872.62	Open wound of ossicles, without mention of complication	ICD-9-CM
Cutaneous implications	872.63	Open wound of Eustachian tube, without mention of complication	ICD-9-CM
Cutaneous implications	872.64	Open wound of cochlea, without mention of complication	ICD-9-CM
Cutaneous implications	872.69	Open wound of other and multiple sites, without mention of complication	ICD-9-CM
Cutaneous implications	872.71	Open wound of ear drum, complicated	ICD-9-CM
Cutaneous implications	872.72	Open wound of ossicles, complicated	ICD-9-CM
Cutaneous implications	872.73	Open wound of Eustachian tube, complicated	ICD-9-CM
Cutaneous implications	872.74	Open wound of cochlea, complicated	ICD-9-CM
Cutaneous implications	872.79	Open wound of other and multiple sites, complicated	ICD-9-CM
Cutaneous implications	873.20	Open wound of nose, unspecified site, without mention of complication	ICD-9-CM
Cutaneous implications	873.21	Open wound of nasal septum, without mention of complication	ICD-9-CM
Cutaneous implications	873.22	Open wound of nasal cavity, without mention of complication	ICD-9-CM
Cutaneous implications	873.23	Open wound of nasal sinus, without mention of complication	ICD-9-CM
Cutaneous implications	873.29	Open wound of nose, multiple sites, without mention of complication	ICD-9-CM
Cutaneous implications	873.30	Open wound of nose, unspecified site, complicated	ICD-9-CM
Cutaneous implications	873.31	Open wound of nasal septum, complicated	ICD-9-CM
Cutaneous implications	873.32	Open wound of nasal cavity, complicated	ICD-9-CM
Cutaneous implications	873.33	Open wound of nasal sinus, complicated	ICD-9-CM
Cutaneous implications	873.39	Open wound of nose, multiple sites, complicated	ICD-9-CM
Cutaneous implications	873.40	Open wound of face, unspecified site, without mention of complication	ICD-9-CM
Cutaneous implications	873.41	Open wound of cheek, without mention of complication	ICD-9-CM
Cutaneous implications	873.42	Open wound of forehead, without mention of complication	ICD-9-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	873.43	Open wound of lip, without mention of complication	ICD-9-CM
Cutaneous implications	873.44	Open wound of jaw, without mention of complication	ICD-9-CM
Cutaneous implications	873.49	Open wound of face, other and multiple sites, without mention of complication	ICD-9-CM
Cutaneous implications	873.50	Open wound of face, unspecified site, complicated	ICD-9-CM
Cutaneous implications	873.51	Open wound of cheek, complicated	ICD-9-CM
Cutaneous implications	873.52	Open wound of forehead, complicated	ICD-9-CM
Cutaneous implications	873.53	Open wound of lip, complicated	ICD-9-CM
Cutaneous implications	873.54	Open wound of jaw, complicated	ICD-9-CM
Cutaneous implications	873.59	Open wound of face, other and multiple sites, complicated	ICD-9-CM
Cutaneous implications	873.60	Open wound of mouth, unspecified site, without mention of complication	ICD-9-CM
Cutaneous implications	873.61	Open wound of buccal mucosa, without mention of complication	ICD-9-CM
Cutaneous implications	873.62	Open wound of gum (alveolar process), without mention of complication	ICD-9-CM
Cutaneous implications	873.63	Tooth (broken) (fractured) (due to trauma), without mention of complication	ICD-9-CM
Cutaneous implications	873.64	Open wound of tongue and floor of mouth, without mention of complication	ICD-9-CM
Cutaneous implications	873.65	Open wound of palate, without mention of complication	ICD-9-CM
Cutaneous implications	873.69	Open wound of mouth, other and multiple sites, without mention of complication	ICD-9-CM
Cutaneous implications	873.70	Open wound of mouth, unspecified site, complicated	ICD-9-CM
Cutaneous implications	873.71	Open wound of buccal mucosa, complicated	ICD-9-CM
Cutaneous implications	873.72	Open wound of gum (alveolar process), complicated	ICD-9-CM
Cutaneous implications	873.73	Tooth (broken) (fractured) (due to trauma), complicated	ICD-9-CM
Cutaneous implications	873.74	Open wound of tongue and floor of mouth, complicated	ICD-9-CM
Cutaneous implications	873.75	Open wound of palate, complicated	ICD-9-CM
Cutaneous implications	873.79	Open wound of mouth, other and multiple sites, complicated	ICD-9-CM
Cutaneous implications	874.00	Open wound of larynx with trachea, without mention of complication	ICD-9-CM
Cutaneous implications	874.01	Open wound of larynx, without mention of complication	ICD-9-CM
Cutaneous implications	874.02	Open wound of trachea, without mention of complication	ICD-9-CM
Cutaneous implications	874.10	Open wound of larynx with trachea, complicated	ICD-9-CM
Cutaneous implications	874.11	Open wound of larynx, complicated	ICD-9-CM
Cutaneous implications	874.12	Open wound of trachea, complicated	ICD-9-CM
Cutaneous implications	879.8	Open wound(s) (multiple) of unspecified site(s), without mention of complication	ICD-9-CM
Cutaneous implications	879.9	Open wound(s) (multiple) of unspecified site(s), complicated	ICD-9-CM
Cutaneous implications	880.00	Open wound of shoulder region, without mention of complication	ICD-9-CM
Cutaneous implications	880.01	Open wound of scapular region, without mention of complication	ICD-9-CM
Cutaneous implications	880.02	Open wound of axillary region, without mention of complication	ICD-9-CM
Cutaneous implications	880.03	Open wound of upper arm, without mention of complication	ICD-9-CM
Cutaneous implications	880.09	Open wound of multiple sites of shoulder and upper arm, without mention of complication	ICD-9-CM
Cutaneous implications	880.10	Open wound of shoulder region, complicated	ICD-9-CM
Cutaneous implications	880.11	Open wound of scapular region, complicated	ICD-9-CM
Cutaneous implications	880.12	Open wound of axillary region, complicated	ICD-9-CM
Cutaneous implications	880.13	Open wound of upper arm, complicated	ICD-9-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	880.19	Open wound of multiple sites of shoulder and upper arm, complicated	ICD-9-CM
Cutaneous implications	880.20	Open wound of shoulder region, with tendon involvement	ICD-9-CM
Cutaneous implications	880.21	Open wound of scapular region, with tendon involvement	ICD-9-CM
Cutaneous implications	880.22	Open wound of axillary region, with tendon involvement	ICD-9-CM
Cutaneous implications	880.23	Open wound of upper arm, with tendon involvement	ICD-9-CM
Cutaneous implications	880.29	Open wound of multiple sites of shoulder and upper arm, with tendon involvement	ICD-9-CM
Cutaneous implications	881.00	Open wound of forearm, without mention of complication	ICD-9-CM
Cutaneous implications	881.01	Open wound of elbow, without mention of complication	ICD-9-CM
Cutaneous implications	881.02	Open wound of wrist, without mention of complication	ICD-9-CM
Cutaneous implications	881.10	Open wound of forearm, complicated	ICD-9-CM
Cutaneous implications	881.11	Open wound of elbow, complicated	ICD-9-CM
Cutaneous implications	881.12	Open wound of wrist, complicated	ICD-9-CM
Cutaneous implications	881.20	Open wound of forearm, with tendon involvement	ICD-9-CM
Cutaneous implications	881.21	Open wound of elbow, with tendon involvement	ICD-9-CM
Cutaneous implications	881.22	Open wound of wrist, with tendon involvement	ICD-9-CM
Cutaneous implications	S01.101A	Unspecified open wound of right eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.102A	Unspecified open wound of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.109A	Unspecified open wound of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.111A	Laceration without foreign body of right eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.112A	Laceration without foreign body of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.119A	Laceration without foreign body of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.121A	Laceration with foreign body of right eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.122A	Laceration with foreign body of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.129A	Laceration with foreign body of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.131A	Puncture wound without foreign body of right eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.132A	Puncture wound without foreign body of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.139A	Puncture wound without foreign body of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.141A	Puncture wound with foreign body of right eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.142A	Puncture wound with foreign body of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.149A	Puncture wound with foreign body of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.151A	Open bite of right eyelid and periocular area, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S01.152A	Open bite of left eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.159A	Open bite of unspecified eyelid and periocular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.20XA	Unspecified open wound of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.21XA	Laceration without foreign body of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.22XA	Laceration with foreign body of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.23XA	Puncture wound without foreign body of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.24XA	Puncture wound with foreign body of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.25XA	Open bite of nose, initial encounter	ICD-10-CM
Cutaneous implications	S01.301A	Unspecified open wound of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.302A	Unspecified open wound of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.309A	Unspecified open wound of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.311A	Laceration without foreign body of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.312A	Laceration without foreign body of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.319A	Laceration without foreign body of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.321A	Laceration with foreign body of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.322A	Laceration with foreign body of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.329A	Laceration with foreign body of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.331A	Puncture wound without foreign body of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.332A	Puncture wound without foreign body of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.339A	Puncture wound without foreign body of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.341A	Puncture wound with foreign body of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.342A	Puncture wound with foreign body of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.349A	Puncture wound with foreign body of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.351A	Open bite of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.352A	Open bite of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.359A	Open bite of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S01.401A	Unspecified open wound of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.402A	Unspecified open wound of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.409A	Unspecified open wound of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.411A	Laceration without foreign body of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.412A	Laceration without foreign body of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.419A	Laceration without foreign body of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.421A	Laceration with foreign body of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.422A	Laceration with foreign body of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.429A	Laceration with foreign body of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S01.431A	Puncture wound without foreign body of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.432A	Puncture wound without foreign body of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.439A	Puncture wound without foreign body of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.441A	Puncture wound with foreign body of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.442A	Puncture wound with foreign body of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.449A	Puncture wound with foreign body of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.451A	Open bite of right cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.452A	Open bite of left cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.459A	Open bite of unspecified cheek and temporomandibular area, initial encounter	ICD-10-CM
Cutaneous implications	S01.501A	Unspecified open wound of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.502A	Unspecified open wound of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.511A	Laceration without foreign body of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.512A	Laceration without foreign body of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.521A	Laceration with foreign body of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.522A	Laceration with foreign body of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.531A	Puncture wound without foreign body of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.532A	Puncture wound without foreign body of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.541A	Puncture wound with foreign body of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.542A	Puncture wound with foreign body of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.551A	Open bite of lip, initial encounter	ICD-10-CM
Cutaneous implications	S01.552A	Open bite of oral cavity, initial encounter	ICD-10-CM
Cutaneous implications	S01.80XA	Unspecified open wound of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S01.81XA	Laceration without foreign body of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S01.82XA	Laceration with foreign body of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S01.83XA	Puncture wound without foreign body of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S01.84XA	Puncture wound with foreign body of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S01.85XA	Open bite of other part of head, initial encounter	ICD-10-CM
Cutaneous implications	S08.111A	Complete traumatic amputation of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.112A	Complete traumatic amputation of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.119A	Complete traumatic amputation of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.121A	Partial traumatic amputation of right ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.122A	Partial traumatic amputation of left ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.129A	Partial traumatic amputation of unspecified ear, initial encounter	ICD-10-CM
Cutaneous implications	S08.811A	Complete traumatic amputation of nose, initial encounter	ICD-10-CM
Cutaneous implications	S08.812A	Partial traumatic amputation of nose, initial encounter	ICD-10-CM
Cutaneous implications	S11.011A	Laceration without foreign body of larynx, initial encounter	ICD-10-CM
Cutaneous implications	S11.012A	Laceration with foreign body of larynx, initial encounter	ICD-10-CM
Cutaneous implications	S11.013A	Puncture wound without foreign body of larynx, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S11.014A	Puncture wound with foreign body of larynx, initial encounter	ICD-10-CM
Cutaneous implications	S11.015A	Open bite of larynx, initial encounter	ICD-10-CM
Cutaneous implications	S11.019A	Unspecified open wound of larynx, initial encounter	ICD-10-CM
Cutaneous implications	S11.021A	Laceration without foreign body of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.022A	Laceration with foreign body of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.023A	Puncture wound without foreign body of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.024A	Puncture wound with foreign body of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.025A	Open bite of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.029A	Unspecified open wound of trachea, initial encounter	ICD-10-CM
Cutaneous implications	S11.031A	Laceration without foreign body of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S11.032A	Laceration with foreign body of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S11.033A	Puncture wound without foreign body of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S11.034A	Puncture wound with foreign body of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S11.035A	Open bite of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S11.039A	Unspecified open wound of vocal cord, initial encounter	ICD-10-CM
Cutaneous implications	S31.000A	Unspecified open wound of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S31.010A	Laceration without foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S31.020A	Laceration with foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S31.030A	Puncture wound without foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S31.040A	Puncture wound with foreign body of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S31.050A	Open bite of lower back and pelvis without penetration into retroperitoneum, initial encounter	ICD-10-CM
Cutaneous implications	S38.3XXA	Transection (partial) of abdomen, initial encounter	ICD-10-CM
Cutaneous implications	S41.001A	Unspecified open wound of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.002A	Unspecified open wound of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.009A	Unspecified open wound of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.011A	Laceration without foreign body of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.012A	Laceration without foreign body of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.019A	Laceration without foreign body of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.021A	Laceration with foreign body of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.022A	Laceration with foreign body of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.029A	Laceration with foreign body of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.031A	Puncture wound without foreign body of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.032A	Puncture wound without foreign body of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.039A	Puncture wound without foreign body of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.041A	Puncture wound with foreign body of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.042A	Puncture wound with foreign body of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.049A	Puncture wound with foreign body of unspecified shoulder, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S41.051A	Open bite of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.052A	Open bite of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.059A	Open bite of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S41.101A	Unspecified open wound of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.102A	Unspecified open wound of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.109A	Unspecified open wound of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.111A	Laceration without foreign body of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.112A	Laceration without foreign body of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.119A	Laceration without foreign body of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.121A	Laceration with foreign body of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.122A	Laceration with foreign body of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.129A	Laceration with foreign body of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.131A	Puncture wound without foreign body of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.132A	Puncture wound without foreign body of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.139A	Puncture wound without foreign body of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.141A	Puncture wound with foreign body of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.142A	Puncture wound with foreign body of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.149A	Puncture wound with foreign body of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.151A	Open bite of right upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.152A	Open bite of left upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S41.159A	Open bite of unspecified upper arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.021A	Laceration of muscle(s) and tendon(s) of the rotator cuff of right shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S46.022A	Laceration of muscle(s) and tendon(s) of the rotator cuff of left shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S46.029A	Laceration of muscle(s) and tendon(s) of the rotator cuff of unspecified shoulder, initial encounter	ICD-10-CM
Cutaneous implications	S46.121A	Laceration of muscle, fascia and tendon of long head of biceps, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.122A	Laceration of muscle, fascia and tendon of long head of biceps, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.129A	Laceration of muscle, fascia and tendon of long head of biceps, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.221A	Laceration of muscle, fascia and tendon of other parts of biceps, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.222A	Laceration of muscle, fascia and tendon of other parts of biceps, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.229A	Laceration of muscle, fascia and tendon of other parts of biceps, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.321A	Laceration of muscle, fascia and tendon of triceps, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.322A	Laceration of muscle, fascia and tendon of triceps, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.329A	Laceration of muscle, fascia and tendon of triceps, unspecified arm, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S46.821A	Laceration of other muscles, fascia and tendons at shoulder and upper arm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.822A	Laceration of other muscles, fascia and tendons at shoulder and upper arm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.829A	Laceration of other muscles, fascia and tendons at shoulder and upper arm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.921A	Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.922A	Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S46.929A	Laceration of unspecified muscle, fascia and tendon at shoulder and upper arm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S51.001A	Unspecified open wound of right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.002A	Unspecified open wound of left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.009A	Unspecified open wound of unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.011A	Laceration without foreign body of right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.012A	Laceration without foreign body of left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.019A	Laceration without foreign body of unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.021A	Laceration with foreign body of right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.022A	Laceration with foreign body of left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.029A	Laceration with foreign body of unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.031A	Puncture wound without foreign body of right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.032A	Puncture wound without foreign body of left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.039A	Puncture wound without foreign body of unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.041A	Puncture wound with foreign body of right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.042A	Puncture wound with foreign body of left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.049A	Puncture wound with foreign body of unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.051A	Open bite, right elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.052A	Open bite, left elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.059A	Open bite, unspecified elbow, initial encounter	ICD-10-CM
Cutaneous implications	S51.801A	Unspecified open wound of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.802A	Unspecified open wound of left forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.809A	Unspecified open wound of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.811A	Laceration without foreign body of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.812A	Laceration without foreign body of left forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.819A	Laceration without foreign body of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.821A	Laceration with foreign body of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.822A	Laceration with foreign body of left forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.829A	Laceration with foreign body of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.831A	Puncture wound without foreign body of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.832A	Puncture wound without foreign body of left forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.839A	Puncture wound without foreign body of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.841A	Puncture wound with foreign body of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.842A	Puncture wound with foreign body of left forearm, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S51.849A	Puncture wound with foreign body of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.851A	Open bite of right forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.852A	Open bite of left forearm, initial encounter	ICD-10-CM
Cutaneous implications	S51.859A	Open bite of unspecified forearm, initial encounter	ICD-10-CM
Cutaneous implications	S56.021A	Laceration of flexor muscle, fascia and tendon of right thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.022A	Laceration of flexor muscle, fascia and tendon of left thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.029A	Laceration of flexor muscle, fascia and tendon of unspecified thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.121A	Laceration of flexor muscle, fascia and tendon of right index finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.122A	Laceration of flexor muscle, fascia and tendon of left index finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.123A	Laceration of flexor muscle, fascia and tendon of right middle finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.124A	Laceration of flexor muscle, fascia and tendon of left middle finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.125A	Laceration of flexor muscle, fascia and tendon of right ring finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.126A	Laceration of flexor muscle, fascia and tendon of left ring finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.127A	Laceration of flexor muscle, fascia and tendon of right little finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.128A	Laceration of flexor muscle, fascia and tendon of left little finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.129A	Laceration of flexor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.221A	Laceration of other flexor muscle, fascia and tendon at forearm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.222A	Laceration of other flexor muscle, fascia and tendon at forearm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.229A	Laceration of other flexor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.321A	Laceration of extensor or abductor muscles, fascia and tendons of right thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.322A	Laceration of extensor or abductor muscles, fascia and tendons of left thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.329A	Laceration of extensor or abductor muscles, fascia and tendons of unspecified thumb at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.421A	Laceration of extensor muscle, fascia and tendon of right index finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.422A	Laceration of extensor muscle, fascia and tendon of left index finger at forearm level, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S56.423A	Laceration of extensor muscle, fascia and tendon of right middle finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.424A	Laceration of extensor muscle, fascia and tendon of left middle finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.425A	Laceration of extensor muscle, fascia and tendon of right ring finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.426A	Laceration of extensor muscle, fascia and tendon of left ring finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.427A	Laceration of extensor muscle, fascia and tendon of right little finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.428A	Laceration of extensor muscle, fascia and tendon of left little finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.429A	Laceration of extensor muscle, fascia and tendon of unspecified finger at forearm level, initial encounter	ICD-10-CM
Cutaneous implications	S56.521A	Laceration of other extensor muscle, fascia and tendon at forearm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.522A	Laceration of other extensor muscle, fascia and tendon at forearm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.529A	Laceration of other extensor muscle, fascia and tendon at forearm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.821A	Laceration of other muscles, fascia and tendons at forearm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.822A	Laceration of other muscles, fascia and tendons at forearm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.829A	Laceration of other muscles, fascia and tendons at forearm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.921A	Laceration of unspecified muscles, fascia and tendons at forearm level, right arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.922A	Laceration of unspecified muscles, fascia and tendons at forearm level, left arm, initial encounter	ICD-10-CM
Cutaneous implications	S56.929A	Laceration of unspecified muscles, fascia and tendons at forearm level, unspecified arm, initial encounter	ICD-10-CM
Cutaneous implications	S61.501A	Unspecified open wound of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.502A	Unspecified open wound of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.509A	Unspecified open wound of unspecified wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.511A	Laceration without foreign body of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.512A	Laceration without foreign body of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.519A	Laceration without foreign body of unspecified wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.521A	Laceration with foreign body of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.522A	Laceration with foreign body of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.529A	Laceration with foreign body of unspecified wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.531A	Puncture wound without foreign body of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.532A	Puncture wound without foreign body of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.539A	Puncture wound without foreign body of unspecified wrist, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S61.541A	Puncture wound with foreign body of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.542A	Puncture wound with foreign body of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.549A	Puncture wound with foreign body of unspecified wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.551A	Open bite of right wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.552A	Open bite of left wrist, initial encounter	ICD-10-CM
Cutaneous implications	S61.559A	Open bite of unspecified wrist, initial encounter	ICD-10-CM
Cutaneous implications	S66.021A	Laceration of long flexor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.022A	Laceration of long flexor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.029A	Laceration of long flexor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.120A	Laceration of flexor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.121A	Laceration of flexor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.122A	Laceration of flexor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.123A	Laceration of flexor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.124A	Laceration of flexor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.125A	Laceration of flexor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.126A	Laceration of flexor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.127A	Laceration of flexor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.128A	Laceration of flexor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.129A	Laceration of flexor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.221A	Laceration of extensor muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.222A	Laceration of extensor muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.229A	Laceration of extensor muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.320A	Laceration of extensor muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.321A	Laceration of extensor muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.322A	Laceration of extensor muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S66.323A	Laceration of extensor muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.324A	Laceration of extensor muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.325A	Laceration of extensor muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.326A	Laceration of extensor muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.327A	Laceration of extensor muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.328A	Laceration of extensor muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.329A	Laceration of extensor muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.421A	Laceration of intrinsic muscle, fascia and tendon of right thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.422A	Laceration of intrinsic muscle, fascia and tendon of left thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.429A	Laceration of intrinsic muscle, fascia and tendon of unspecified thumb at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.520A	Laceration of intrinsic muscle, fascia and tendon of right index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.521A	Laceration of intrinsic muscle, fascia and tendon of left index finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.522A	Laceration of intrinsic muscle, fascia and tendon of right middle finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.523A	Laceration of intrinsic muscle, fascia and tendon of left middle finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.524A	Laceration of intrinsic muscle, fascia and tendon of right ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.525A	Laceration of intrinsic muscle, fascia and tendon of left ring finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.526A	Laceration of intrinsic muscle, fascia and tendon of right little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.527A	Laceration of intrinsic muscle, fascia and tendon of left little finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.528A	Laceration of intrinsic muscle, fascia and tendon of other finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.529A	Laceration of intrinsic muscle, fascia and tendon of unspecified finger at wrist and hand level, initial encounter	ICD-10-CM
Cutaneous implications	S66.821A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, right hand, initial encounter	ICD-10-CM
Cutaneous implications	S66.822A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter	ICD-10-CM

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

Covariate	Code	Description	Code Type
Cutaneous implications	S66.829A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, unspecified hand, initial encounter	ICD-10-CM
Cutaneous implications	S66.921A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, right hand, initial encounter	ICD-10-CM
Cutaneous implications	S66.922A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, left hand, initial encounter	ICD-10-CM
Cutaneous implications	S66.929A	Laceration of unspecified muscle, fascia and tendon at wrist and hand level, unspecified hand, initial encounter	ICD-10-CM
Gastrointestinal implications	565.0	Anal fissure	ICD-9-CM
Gastrointestinal implications	K60.0	Acute anal fissure	ICD-10-CM
Gastrointestinal implications	K60.1	Chronic anal fissure	ICD-10-CM
Gastrointestinal implications	K60.2	Anal fissure, unspecified	ICD-10-CM
Gastrointestinal implications	756.6	Congenital anomaly of diaphragm	ICD-9-CM
Gastrointestinal implications	Q79.0	Congenital diaphragmatic hernia	ICD-10-CM
Reproductive implications	628.3	Female infertility of uterine origin	ICD-9-CM
Reproductive implications	N97.2	Female infertility of uterine origin	ICD-10-CM
Reproductive implications	642.0	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Reproductive implications	642.00	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.01	Benign essential hypertension with delivery	ICD-9-CM
Reproductive implications	642.02	Benign essential hypertension, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.03	Benign essential hypertension antepartum	ICD-9-CM
Reproductive implications	642.04	Benign essential hypertension, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.1	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Reproductive implications	642.10	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.11	Hypertension secondary to renal disease, with delivery	ICD-9-CM
Reproductive implications	642.12	Hypertension secondary to renal disease, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.13	Hypertension secondary to renal disease, antepartum	ICD-9-CM
Reproductive implications	642.14	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.2	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Reproductive implications	642.20	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.21	Other pre-existing hypertension, with delivery	ICD-9-CM
Reproductive implications	642.22	Other pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.23	Other pre-existing hypertension, antepartum	ICD-9-CM

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

Covariate	Code	Description	Code Type
Reproductive implications	642.24	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.3	Transient hypertension of pregnancy	ICD-9-CM
Reproductive implications	642.30	Transient hypertension of pregnancy, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.31	Transient hypertension of pregnancy, with delivery	ICD-9-CM
Reproductive implications	642.32	Transient hypertension of pregnancy, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.33	Transient hypertension of pregnancy, antepartum	ICD-9-CM
Reproductive implications	642.34	Transient hypertension of pregnancy, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.40	Mild or unspecified pre-eclampsia, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.4	Mild or unspecified pre-eclampsia	ICD-9-CM
Reproductive implications	642.41	Mild or unspecified pre-eclampsia, with delivery	ICD-9-CM
Reproductive implications	642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.43	Mild or unspecified pre-eclampsia, antepartum	ICD-9-CM
Reproductive implications	642.44	Mild or unspecified pre-eclampsia, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.50	Severe pre-eclampsia, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.5	Severe pre-eclampsia	ICD-9-CM
Reproductive implications	642.51	Severe pre-eclampsia, with delivery	ICD-9-CM
Reproductive implications	642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.53	Severe pre-eclampsia, antepartum	ICD-9-CM
Reproductive implications	642.54	Severe pre-eclampsia, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.6	Eclampsia complicating pregnancy, childbirth or the puerperium	ICD-9-CM
Reproductive implications	642.60	Eclampsia complicating pregnancy, childbirth or the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.61	Eclampsia, with delivery	ICD-9-CM
Reproductive implications	642.62	Eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.63	Eclampsia, antepartum	ICD-9-CM
Reproductive implications	642.64	Eclampsia, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.7	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension	ICD-9-CM
Reproductive implications	642.70	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	ICD-9-CM
Reproductive implications	642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.73	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, antepartum	ICD-9-CM
Reproductive implications	642.74	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, postpartum condition or complication	ICD-9-CM
Reproductive implications	642.9	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium	ICD-9-CM

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

Covariate	Code	Description	Code Type
Reproductive implications	642.90	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM
Reproductive implications	642.91	Unspecified hypertension, with delivery	ICD-9-CM
Reproductive implications	642.92	Unspecified hypertension, with delivery, with current postpartum complication	ICD-9-CM
Reproductive implications	642.93	Unspecified hypertension antepartum	ICD-9-CM
Reproductive implications	642.94	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM
Reproductive implications	O10.011	Pre-existing essential hypertension complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.012	Pre-existing essential hypertension complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.013	Pre-existing essential hypertension complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.019	Pre-existing essential hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.02	Pre-existing essential hypertension complicating childbirth	ICD-10-CM
Reproductive implications	O10.03	Pre-existing essential hypertension complicating the puerperium	ICD-10-CM
Reproductive implications	O10.111	Pre-existing hypertensive heart disease complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.112	Pre-existing hypertensive heart disease complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.113	Pre-existing hypertensive heart disease complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.119	Pre-existing hypertensive heart disease complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.12	Pre-existing hypertensive heart disease complicating childbirth	ICD-10-CM
Reproductive implications	O10.13	Pre-existing hypertensive heart disease complicating the puerperium	ICD-10-CM
Reproductive implications	O10.211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	ICD-10-CM
Reproductive implications	O10.23	Pre-existing hypertensive chronic kidney disease complicating the puerperium	ICD-10-CM
Reproductive implications	O10.311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	ICD-10-CM

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

Covariate	Code	Description	Code Type
Reproductive implications	O10.33	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	ICD-10-CM
Reproductive implications	O10.411	Pre-existing secondary hypertension complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.412	Pre-existing secondary hypertension complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.413	Pre-existing secondary hypertension complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.419	Pre-existing secondary hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.42	Pre-existing secondary hypertension complicating childbirth	ICD-10-CM
Reproductive implications	O10.43	Pre-existing secondary hypertension complicating the puerperium	ICD-10-CM
Reproductive implications	O10.911	Unspecified pre-existing hypertension complicating pregnancy, first trimester	ICD-10-CM
Reproductive implications	O10.912	Unspecified pre-existing hypertension complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O10.913	Unspecified pre-existing hypertension complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O10.919	Unspecified pre-existing hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O10.92	Unspecified pre-existing hypertension complicating childbirth	ICD-10-CM
Reproductive implications	O10.93	Unspecified pre-existing hypertension complicating the puerperium	ICD-10-CM
Reproductive implications	O11	Pre-existing hypertension with pre-eclampsia	ICD-10-CM
Reproductive implications	O11.1	Pre-existing hypertension with pre-eclampsia, first trimester	ICD-10-CM
Reproductive implications	O11.2	Pre-existing hypertension with pre-eclampsia, second trimester	ICD-10-CM
Reproductive implications	O11.3	Pre-existing hypertension with pre-eclampsia, third trimester	ICD-10-CM
Reproductive implications	O11.4	Pre-existing hypertension with pre-eclampsia, complicating childbirth	ICD-10-CM
Reproductive implications	O11.5	Pre-existing hypertension with pre-eclampsia, complicating the puerperium	ICD-10-CM
Reproductive implications	O11.9	Pre-existing hypertension with pre-eclampsia, unspecified trimester	ICD-10-CM
Reproductive implications	O13	Gestational [pregnancy-induced] hypertension without significant proteinuria	ICD-10-CM
Reproductive implications	O13.1	Gestational [pregnancy-induced] hypertension without significant proteinuria, first trimester	ICD-10-CM
Reproductive implications	O13.2	Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester	ICD-10-CM
Reproductive implications	O13.3	Gestational [pregnancy-induced] hypertension without significant proteinuria, third trimester	ICD-10-CM
Reproductive implications	O13.4	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	ICD-10-CM
Reproductive implications	O13.5	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating the puerperium	ICD-10-CM
Reproductive implications	O13.9	Gestational [pregnancy-induced] hypertension without significant proteinuria, unspecified trimester	ICD-10-CM
Reproductive implications	O14	Pre-eclampsia	ICD-10-CM
Reproductive implications	O14.0	Mild to moderate pre-eclampsia	ICD-10-CM
Reproductive implications	O14.00	Mild to moderate pre-eclampsia, unspecified trimester	ICD-10-CM
Reproductive implications	O14.02	Mild to moderate pre-eclampsia, second trimester	ICD-10-CM
Reproductive implications	O14.03	Mild to moderate pre-eclampsia, third trimester	ICD-10-CM
Reproductive implications	O14.04	Mild to moderate pre-eclampsia, complicating childbirth	ICD-10-CM
Reproductive implications	O14.05	Mild to moderate pre-eclampsia, complicating the puerperium	ICD-10-CM

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

Covariate	Code	Description	Code Type
Reproductive implications	O14.1	Severe pre-eclampsia	ICD-10-CM
Reproductive implications	O14.10	Severe pre-eclampsia, unspecified trimester	ICD-10-CM
Reproductive implications	O14.12	Severe pre-eclampsia, second trimester	ICD-10-CM
Reproductive implications	O14.13	Severe pre-eclampsia, third trimester	ICD-10-CM
Reproductive implications	O14.14	Severe pre-eclampsia complicating childbirth	ICD-10-CM
Reproductive implications	O14.15	Severe pre-eclampsia, complicating the puerperium	ICD-10-CM
Reproductive implications	O14.20	HELLP syndrome (HELLP), unspecified trimester	ICD-10-CM
Reproductive implications	O14.22	HELLP syndrome (HELLP), second trimester	ICD-10-CM
Reproductive implications	O14.23	HELLP syndrome (HELLP), third trimester	ICD-10-CM
Reproductive implications	O14.24	HELLP syndrome, complicating childbirth	ICD-10-CM
Reproductive implications	O14.25	HELLP syndrome, complicating the puerperium	ICD-10-CM
Reproductive implications	O14.9	Unspecified pre-eclampsia	ICD-10-CM
Reproductive implications	O14.90	Unspecified pre-eclampsia, unspecified trimester	ICD-10-CM
Reproductive implications	O14.92	Unspecified pre-eclampsia, second trimester	ICD-10-CM
Reproductive implications	O14.93	Unspecified pre-eclampsia, third trimester	ICD-10-CM
Reproductive implications	O14.94	Unspecified pre-eclampsia, complicating childbirth	ICD-10-CM
Reproductive implications	O14.95	Unspecified pre-eclampsia, complicating the puerperium	ICD-10-CM
Reproductive implications	O15.00	Eclampsia complicating pregnancy, unspecified trimester	ICD-10-CM
Reproductive implications	O15.02	Eclampsia complicating pregnancy, second trimester	ICD-10-CM
Reproductive implications	O15.03	Eclampsia complicating pregnancy, third trimester	ICD-10-CM
Reproductive implications	O15.1	Eclampsia complicating labor	ICD-10-CM
Reproductive implications	O15.2	Eclampsia complicating the puerperium	ICD-10-CM
Reproductive implications	O15.9	Eclampsia, unspecified as to time period	ICD-10-CM
Reproductive implications	O16.1	Unspecified maternal hypertension, first trimester	ICD-10-CM
Reproductive implications	O16.2	Unspecified maternal hypertension, second trimester	ICD-10-CM
Reproductive implications	O16.3	Unspecified maternal hypertension, third trimester	ICD-10-CM
Reproductive implications	O16.4	Unspecified maternal hypertension, complicating childbirth	ICD-10-CM
Reproductive implications	O16.5	Unspecified maternal hypertension, complicating the puerperium	ICD-10-CM
Reproductive implications	O16.9	Unspecified maternal hypertension, unspecified trimester	ICD-10-CM
Reproductive implications	629.81	Recurrent pregnancy loss without current pregnancy	ICD-9-CM
Reproductive implications	646.30	Pregnancy complication, recurrent pregnancy loss, unspecified as to episode of care	ICD-9-CM
Reproductive implications	646.3	Pregnancy complication, recurrent pregnancy loss	ICD-9-CM
Reproductive implications	646.31	Pregnancy complication, recurrent pregnancy loss, with or without mention of antepartum condition	ICD-9-CM
Reproductive implications	646.33	Pregnancy complication, recurrent pregnancy loss, antepartum condition or complication	ICD-9-CM
Reproductive implications	N96	Recurrent pregnancy loss	ICD-10-CM
Reproductive implications	O26.2	Pregnancy care for patient with recurrent pregnancy loss	ICD-10-CM
Reproductive implications	O26.20	Pregnancy care for patient with recurrent pregnancy loss, unspecified trimester	ICD-10-CM
Reproductive implications	O26.21	Pregnancy care for patient with recurrent pregnancy loss, first trimester	ICD-10-CM
Reproductive implications	O26.22	Pregnancy care for patient with recurrent pregnancy loss, second trimester	ICD-10-CM
Reproductive implications	O26.23	Pregnancy care for patient with recurrent pregnancy loss, third trimester	ICD-10-CM
Neurological implications	331.83	Mild cognitive impairment, so stated	ICD-9-CM

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

Covariate	Code	Description	Code Type
Neurological implications	438.0	Cognitive deficits due to cerebrovascular disease	ICD-9-CM
Neurological implications	797	Senility without mention of psychosis	ICD-9-CM
Neurological implications	799.52	Cognitive communication deficit	ICD-9-CM
Neurological implications	799.59	Other signs and symptoms involving cognition	ICD-9-CM
Neurological implications	G31.84	Mild cognitive impairment, so stated	ICD-10-CM
Neurological implications	I69.01	Cognitive deficits following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.010	Attention and concentration deficit following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.011	Memory deficit following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.012	Visuospatial deficit and spatial neglect following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.013	Psychomotor deficit following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.014	Frontal lobe and executive function deficit following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.015	Cognitive social or emotional deficit following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.018	Other symptoms and signs involving cognitive functions following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.019	Unspecified symptoms and signs involving cognitive functions following nontraumatic subarachnoid hemorrhage	ICD-10-CM
Neurological implications	I69.11	Cognitive deficits following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.110	Attention and concentration deficit following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.111	Memory deficit following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.112	Visuospatial deficit and spatial neglect following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.113	Psychomotor deficit following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.114	Frontal lobe and executive function deficit following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.115	Cognitive social or emotional deficit following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.118	Other symptoms and signs involving cognitive functions following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.119	Unspecified symptoms and signs involving cognitive functions following nontraumatic intracerebral hemorrhage	ICD-10-CM
Neurological implications	I69.21	Cognitive deficits following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.210	Attention and concentration deficit following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.211	Memory deficit following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.212	Visuospatial deficit and spatial neglect following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.213	Psychomotor deficit following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.214	Frontal lobe and executive function deficit following other nontraumatic intracranial hemorrhage	ICD-10-CM

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

Covariate	Code	Description	Code Type
Neurological implications	I69.215	Cognitive social or emotional deficit following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.218	Other symptoms and signs involving cognitive functions following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.219	Unspecified symptoms and signs involving cognitive functions following other nontraumatic intracranial hemorrhage	ICD-10-CM
Neurological implications	I69.31	Cognitive deficits following cerebral infarction	ICD-10-CM
Neurological implications	I69.310	Attention and concentration deficit following cerebral infarction	ICD-10-CM
Neurological implications	I69.311	Memory deficit following cerebral infarction	ICD-10-CM
Neurological implications	I69.312	Visuospatial deficit and spatial neglect following cerebral infarction	ICD-10-CM
Neurological implications	I69.313	Psychomotor deficit following cerebral infarction	ICD-10-CM
Neurological implications	I69.314	Frontal lobe and executive function deficit following cerebral infarction	ICD-10-CM
Neurological implications	I69.315	Cognitive social or emotional deficit following cerebral infarction	ICD-10-CM
Neurological implications	I69.318	Other symptoms and signs involving cognitive functions following cerebral infarction	ICD-10-CM
Neurological implications	I69.319	Unspecified symptoms and signs involving cognitive functions following cerebral infarction	ICD-10-CM
Neurological implications	I69.81	Cognitive deficits following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.810	Attention and concentration deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.811	Memory deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.812	Visuospatial deficit and spatial neglect following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.813	Psychomotor deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.814	Frontal lobe and executive function deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.815	Cognitive social or emotional deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.818	Other symptoms and signs involving cognitive functions following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.819	Unspecified symptoms and signs involving cognitive functions following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.91	Cognitive deficits following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.910	Attention and concentration deficit following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.911	Memory deficit following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.912	Visuospatial deficit and spatial neglect following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.913	Psychomotor deficit following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.914	Frontal lobe and executive function deficit following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.915	Cognitive social or emotional deficit following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.918	Other symptoms and signs involving cognitive functions following unspecified cerebrovascular disease	ICD-10-CM
Neurological implications	I69.919	Unspecified symptoms and signs involving cognitive functions following unspecified cerebrovascular disease	ICD-10-CM

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

Covariate	Code	Description	Code Type
Neurological implications	R41	Other symptoms and signs involving cognitive functions and awareness	ICD-10-CM
Neurological implications	R41.8	Other symptoms and signs involving cognitive functions and awareness	ICD-10-CM
Neurological implications	R41.84	Other specified cognitive deficit	ICD-10-CM
Neurological implications	R41.841	Cognitive communication deficit	ICD-10-CM
Neurological implications	R41.89	Other symptoms and signs involving cognitive functions and awareness	ICD-10-CM
Neurological implications	R41.9	Unspecified symptoms and signs involving cognitive functions and awareness	ICD-10-CM
Neurological implications	570	Acute and subacute necrosis of liver	ICD-9-CM
Neurological implications	571.3	Unspecified alcoholic liver damage	ICD-9-CM
Neurological implications	572.2	Hepatic encephalopathy	ICD-9-CM
Neurological implications	572.8	Other sequelae of chronic liver disease	ICD-9-CM
Neurological implications	356	Hereditary and idiopathic peripheral neuropathy	ICD-9-CM
Neurological implications	356.0	Hereditary peripheral neuropathy	ICD-9-CM
Neurological implications	356.1	Peroneal muscular atrophy	ICD-9-CM
Neurological implications	356.2	Hereditary sensory neuropathy	ICD-9-CM
Neurological implications	356.3	Refsum's disease	ICD-9-CM
Neurological implications	356.4	Idiopathic progressive polyneuropathy	ICD-9-CM
Neurological implications	356.8	Other specified idiopathic peripheral neuropathy	ICD-9-CM
Neurological implications	356.9	Unspecified hereditary and idiopathic peripheral neuropathy	ICD-9-CM
Neurological implications	646.40	Peripheral neuritis in pregnancy, unspecified as to episode of care	ICD-9-CM
Neurological implications	646.4	Peripheral neuritis in pregnancy	ICD-9-CM
Neurological implications	646.41	Peripheral neuritis in pregnancy, with delivery	ICD-9-CM
Neurological implications	646.42	Peripheral neuritis in pregnancy, with delivery, with current postpartum complication	ICD-9-CM
Neurological implications	646.43	Peripheral neuritis antepartum	ICD-9-CM
Neurological implications	646.44	Peripheral neuritis in pregnancy, postpartum condition or complication	ICD-9-CM
Neurological implications	G60.0	Hereditary motor and sensory neuropathy	ICD-10-CM
Neurological implications	G60.1	Refsum's disease	ICD-10-CM
Neurological implications	G60.2	Neuropathy in association with hereditary ataxia	ICD-10-CM
Neurological implications	G60.3	Idiopathic progressive neuropathy	ICD-10-CM
Neurological implications	G60.8	Other hereditary and idiopathic neuropathies	ICD-10-CM
Neurological implications	G60.9	Hereditary and idiopathic neuropathy, unspecified	ICD-10-CM
Neurological implications	O26.82	Pregnancy related peripheral neuritis	ICD-10-CM
Neurological implications	O26.821	Pregnancy related peripheral neuritis, first trimester	ICD-10-CM
Neurological implications	O26.822	Pregnancy related peripheral neuritis, second trimester	ICD-10-CM
Neurological implications	O26.823	Pregnancy related peripheral neuritis, third trimester	ICD-10-CM
Neurological implications	O26.829	Pregnancy related peripheral neuritis, unspecified trimester	ICD-10-CM
Neurological implications	O90.89	Other complications of the puerperium, not elsewhere classified	ICD-10-CM
Neurological implications	E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	ICD-10-CM
Neurological implications	E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	ICD-10-CM
Neurological implications	E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	ICD-10-CM
Neurological implications	E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	ICD-10-CM
Neurological implications	E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	ICD-10-CM

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

Covariate	Code	Description	Code Type
Neurological implications	E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	ICD-10-CM
Neurological implications	E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	ICD-10-CM
Neurological implications	E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	ICD-10-CM
Neurological implications	E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Neurological implications	E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Neurological implications	E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
Neurological implications	E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Neurological implications	E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Neurological implications	E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Neurological implications	E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
Neurological implications	E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Neurological implications	E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Neurological implications	E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Neurological implications	E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
Neurological implications	E13.44	Other specified diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Neurological implications	G13.0	Paraneoplastic neuromyopathy and neuropathy	ICD-10-CM
Lupus	710.0	Systemic lupus erythematosus	ICD-9-CM
Lupus	M32	Systemic lupus erythematosus (SLE)	ICD-10-CM
Lupus	M32.0	Drug-induced systemic lupus erythematosus	ICD-10-CM
Lupus	M32.1	Systemic lupus erythematosus with organ or system involvement	ICD-10-CM
Lupus	M32.10	Systemic lupus erythematosus, organ or system involvement unspecified	ICD-10-CM
Lupus	M32.11	Endocarditis in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.12	Pericarditis in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.13	Lung involvement in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.14	Glomerular disease in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.19	Other organ or system involvement in systemic lupus erythematosus	ICD-10-CM
Lupus	M32.8	Other forms of systemic lupus erythematosus	ICD-10-CM
Lupus	M32.9	Systemic lupus erythematosus, unspecified	ICD-10-CM
Diabetes	249	Secondary diabetes mellitus	ICD-9-CM
Diabetes	249.0	Secondary diabetes mellitus without mention of complication	ICD-9-CM
Diabetes	249.00	Secondary diabetes mellitus without mention of complication, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.01	Secondary diabetes mellitus without mention of complication, uncontrolled	ICD-9-CM
Diabetes	249.1	Secondary diabetes mellitus with ketoacidosis	ICD-9-CM
Diabetes	249.10	Secondary diabetes mellitus with ketoacidosis, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	ICD-9-CM
Diabetes	249.2	Secondary diabetes mellitus with hyperosmolarity	ICD-9-CM
Diabetes	249.20	Secondary diabetes mellitus with hyperosmolarity, not stated as uncontrolled, or unspecified	ICD-9-CM

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

Covariate	Code	Description	Code Type
Diabetes	249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	ICD-9-CM
Diabetes	249.3	Secondary diabetes mellitus with other coma	ICD-9-CM
Diabetes	249.30	Secondary diabetes mellitus with other coma, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.31	Secondary diabetes mellitus with other coma, uncontrolled	ICD-9-CM
Diabetes	249.4	Secondary diabetes mellitus with renal manifestations	ICD-9-CM
Diabetes	249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	ICD-9-CM
Diabetes	249.5	Secondary diabetes mellitus with ophthalmic manifestations	ICD-9-CM
Diabetes	249.50	Secondary diabetes mellitus with ophthalmic manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.51	Secondary diabetes mellitus with ophthalmic manifestations, uncontrolled	ICD-9-CM
Diabetes	249.6	Secondary diabetes mellitus with neurological manifestations	ICD-9-CM
Diabetes	249.60	Secondary diabetes mellitus with neurological manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.61	Secondary diabetes mellitus with neurological manifestations, uncontrolled	ICD-9-CM
Diabetes	249.7	Secondary diabetes mellitus with peripheral circulatory disorders	ICD-9-CM
Diabetes	249.70	Secondary diabetes mellitus with peripheral circulatory disorders, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.71	Secondary diabetes mellitus with peripheral circulatory disorders, uncontrolled	ICD-9-CM
Diabetes	249.8	Secondary diabetes mellitus with other specified manifestations	ICD-9-CM
Diabetes	249.80	Secondary diabetes mellitus with other specified manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.81	Secondary diabetes mellitus with other specified manifestations, uncontrolled	ICD-9-CM
Diabetes	249.9	Secondary diabetes mellitus with unspecified complication	ICD-9-CM
Diabetes	249.90	Secondary diabetes mellitus with unspecified complication, not stated as uncontrolled, or unspecified	ICD-9-CM
Diabetes	249.91	Secondary diabetes mellitus with unspecified complication, uncontrolled	ICD-9-CM
Diabetes	250	Diabetes mellitus	ICD-9-CM
Diabetes	250.0	Diabetes mellitus without mention of complication	ICD-9-CM
Diabetes	250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.1	Diabetes with ketoacidosis	ICD-9-CM
Diabetes	250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM

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

Covariate	Code	Description	Code Type
Diabetes	250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.2	Diabetes with hyperosmolarity	ICD-9-CM
Diabetes	250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.3	Diabetes with other coma	ICD-9-CM
Diabetes	250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.4	Diabetes with renal manifestations	ICD-9-CM
Diabetes	250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.5	Diabetes with ophthalmic manifestations	ICD-9-CM
Diabetes	250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.6	Diabetes with neurological manifestations	ICD-9-CM
Diabetes	250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM
Diabetes	250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM

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

Covariate	Code	Description	Code Type
Diabetes	250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.8	Diabetes with other specified manifestations	ICD-9-CM
Diabetes	250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	250.9	Diabetes with unspecified complication	ICD-9-CM
Diabetes	250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
Diabetes	250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
Diabetes	250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM
Diabetes	250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM
Diabetes	357.2	Polyneuropathy in diabetes	ICD-9-CM
Diabetes	362.01	Background diabetic retinopathy	ICD-9-CM
Diabetes	362.02	Proliferative diabetic retinopathy	ICD-9-CM
Diabetes	362.04	Mild nonproliferative diabetic retinopathy	ICD-9-CM
Diabetes	362.05	Moderate nonproliferative diabetic retinopathy	ICD-9-CM
Diabetes	362.06	Severe nonproliferative diabetic retinopathy	ICD-9-CM
Diabetes	362.07	Diabetic macular edema	ICD-9-CM
Diabetes	366.41	Diabetic cataract	ICD-9-CM
Diabetes	648.0	Maternal diabetes mellitus complicating pregnancy, childbirth, or the puerperium	ICD-9-CM
Diabetes	648.00	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM
Diabetes	648.01	Maternal diabetes mellitus with delivery	ICD-9-CM
Diabetes	648.02	Maternal diabetes mellitus with delivery, with current postpartum complication	ICD-9-CM
Diabetes	648.03	Maternal diabetes mellitus, antepartum	ICD-9-CM
Diabetes	648.04	Maternal diabetes mellitus, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM
Diabetes	E08	Diabetes mellitus due to underlying condition	ICD-10-CM
Diabetes	E08.0	Diabetes mellitus due to underlying condition with hyperosmolarity	ICD-10-CM
Diabetes	E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
Diabetes	E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	ICD-10-CM
Diabetes	E08.1	Diabetes mellitus due to underlying condition with ketoacidosis	ICD-10-CM
Diabetes	E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	ICD-10-CM
Diabetes	E08.2	Diabetes mellitus due to underlying condition with kidney complications	ICD-10-CM
Diabetes	E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	ICD-10-CM
Diabetes	E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	ICD-10-CM
Diabetes	E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	ICD-10-CM
Diabetes	E08.3	Diabetes mellitus due to underlying condition with ophthalmic complications	ICD-10-CM
Diabetes	E08.31	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy	ICD-10-CM
Diabetes	E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E08.32	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.33	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.34	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.35	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.352	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM
Diabetes	E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
Diabetes	E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
Diabetes	E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
Diabetes	E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
Diabetes	E08.353	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM
Diabetes	E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
Diabetes	E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
Diabetes	E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
Diabetes	E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
Diabetes	E08.354	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
Diabetes	E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
Diabetes	E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
Diabetes	E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
Diabetes	E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E08.355	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
Diabetes	E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
Diabetes	E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
Diabetes	E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
Diabetes	E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	ICD-10-CM
Diabetes	E08.37	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment	ICD-10-CM
Diabetes	E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
Diabetes	E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
Diabetes	E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
Diabetes	E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
Diabetes	E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	ICD-10-CM
Diabetes	E08.4	Diabetes mellitus due to underlying condition with neurological complications	ICD-10-CM
Diabetes	E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	ICD-10-CM
Diabetes	E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	ICD-10-CM
Diabetes	E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	ICD-10-CM
Diabetes	E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	ICD-10-CM
Diabetes	E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	ICD-10-CM
Diabetes	E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	ICD-10-CM
Diabetes	E08.5	Diabetes mellitus due to underlying condition with circulatory complications	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	ICD-10-CM
Diabetes	E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	ICD-10-CM
Diabetes	E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	ICD-10-CM
Diabetes	E08.6	Diabetes mellitus due to underlying condition with other specified complications	ICD-10-CM
Diabetes	E08.61	Diabetes mellitus due to underlying condition with diabetic arthropathy	ICD-10-CM
Diabetes	E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	ICD-10-CM
Diabetes	E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	ICD-10-CM
Diabetes	E08.62	Diabetes mellitus due to underlying condition with skin complications	ICD-10-CM
Diabetes	E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	ICD-10-CM
Diabetes	E08.621	Diabetes mellitus due to underlying condition with foot ulcer	ICD-10-CM
Diabetes	E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	ICD-10-CM
Diabetes	E08.628	Diabetes mellitus due to underlying condition with other skin complications	ICD-10-CM
Diabetes	E08.63	Diabetes mellitus due to underlying condition with oral complications	ICD-10-CM
Diabetes	E08.630	Diabetes mellitus due to underlying condition with periodontal disease	ICD-10-CM
Diabetes	E08.638	Diabetes mellitus due to underlying condition with other oral complications	ICD-10-CM
Diabetes	E08.64	Diabetes mellitus due to underlying condition with hypoglycemia	ICD-10-CM
Diabetes	E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	ICD-10-CM
Diabetes	E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	ICD-10-CM
Diabetes	E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	ICD-10-CM
Diabetes	E08.69	Diabetes mellitus due to underlying condition with other specified complication	ICD-10-CM
Diabetes	E08.8	Diabetes mellitus due to underlying condition with unspecified complications	ICD-10-CM
Diabetes	E08.9	Diabetes mellitus due to underlying condition without complications	ICD-10-CM
Diabetes	E09	Drug or chemical induced diabetes mellitus	ICD-10-CM
Diabetes	E09.0	Drug or chemical induced diabetes mellitus with hyperosmolarity	ICD-10-CM
Diabetes	E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
Diabetes	E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
Diabetes	E09.1	Drug or chemical induced diabetes mellitus with ketoacidosis	ICD-10-CM
Diabetes	E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	ICD-10-CM
Diabetes	E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	ICD-10-CM
Diabetes	E09.2	Drug or chemical induced diabetes mellitus with kidney complications	ICD-10-CM
Diabetes	E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	ICD-10-CM
Diabetes	E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Diabetes	E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	ICD-10-CM
Diabetes	E09.3	Drug or chemical induced diabetes mellitus with ophthalmic complications	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E09.31	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM
Diabetes	E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E09.32	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.33	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.34	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.35	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.352	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM
Diabetes	E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
Diabetes	E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
Diabetes	E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
Diabetes	E09.353	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM
Diabetes	E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
Diabetes	E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
Diabetes	E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
Diabetes	E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
Diabetes	E09.354	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
Diabetes	E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
Diabetes	E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
Diabetes	E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
Diabetes	E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
Diabetes	E09.355	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
Diabetes	E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
Diabetes	E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
Diabetes	E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	ICD-10-CM
Diabetes	E09.37	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM
Diabetes	E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
Diabetes	E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
Diabetes	E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
Diabetes	E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
Diabetes	E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
Diabetes	E09.4	Drug or chemical induced diabetes mellitus with neurological complications	ICD-10-CM
Diabetes	E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	ICD-10-CM
Diabetes	E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	ICD-10-CM
Diabetes	E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	ICD-10-CM
Diabetes	E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	ICD-10-CM
Diabetes	E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	ICD-10-CM
Diabetes	E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	ICD-10-CM
Diabetes	E09.5	Drug or chemical induced diabetes mellitus with circulatory complications	ICD-10-CM
Diabetes	E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
Diabetes	E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	ICD-10-CM
Diabetes	E09.6	Drug or chemical induced diabetes mellitus with other specified complications	ICD-10-CM
Diabetes	E09.61	Drug or chemical induced diabetes mellitus with diabetic arthropathy	ICD-10-CM
Diabetes	E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
Diabetes	E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	ICD-10-CM
Diabetes	E09.62	Drug or chemical induced diabetes mellitus with skin complications	ICD-10-CM
Diabetes	E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	ICD-10-CM
Diabetes	E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	ICD-10-CM
Diabetes	E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	ICD-10-CM
Diabetes	E09.628	Drug or chemical induced diabetes mellitus with other skin complications	ICD-10-CM
Diabetes	E09.63	Drug or chemical induced diabetes mellitus with oral complications	ICD-10-CM
Diabetes	E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	ICD-10-CM
Diabetes	E09.638	Drug or chemical induced diabetes mellitus with other oral complications	ICD-10-CM
Diabetes	E09.64	Drug or chemical induced diabetes mellitus with hypoglycemia	ICD-10-CM
Diabetes	E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	ICD-10-CM
Diabetes	E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	ICD-10-CM
Diabetes	E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	ICD-10-CM
Diabetes	E09.69	Drug or chemical induced diabetes mellitus with other specified complication	ICD-10-CM
Diabetes	E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	ICD-10-CM
Diabetes	E09.9	Drug or chemical induced diabetes mellitus without complications	ICD-10-CM
Diabetes	E10	Type 1 diabetes mellitus	ICD-10-CM
Diabetes	E10.1	Type 1 diabetes mellitus with ketoacidosis	ICD-10-CM
Diabetes	E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM
Diabetes	E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	ICD-10-CM
Diabetes	E10.2	Type 1 diabetes mellitus with kidney complications	ICD-10-CM
Diabetes	E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM
Diabetes	E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Diabetes	E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
Diabetes	E10.3	Type 1 diabetes mellitus with ophthalmic complications	ICD-10-CM
Diabetes	E10.31	Type 1 diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM
Diabetes	E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E10.32	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.33	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.34	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.35	Type 1 diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.352	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM
Diabetes	E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
Diabetes	E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
Diabetes	E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
Diabetes	E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
Diabetes	E10.353	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM
Diabetes	E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
Diabetes	E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
Diabetes	E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
Diabetes	E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E10.354	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
Diabetes	E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
Diabetes	E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
Diabetes	E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
Diabetes	E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
Diabetes	E10.355	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
Diabetes	E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
Diabetes	E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
Diabetes	E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
Diabetes	E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM
Diabetes	E10.37	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM
Diabetes	E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
Diabetes	E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
Diabetes	E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
Diabetes	E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
Diabetes	E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
Diabetes	E10.4	Type 1 diabetes mellitus with neurological complications	ICD-10-CM
Diabetes	E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Diabetes	E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Diabetes	E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
Diabetes	E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Diabetes	E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	ICD-10-CM
Diabetes	E10.5	Type 1 diabetes mellitus with circulatory complications	ICD-10-CM
Diabetes	E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
Diabetes	E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
Diabetes	E10.59	Type 1 diabetes mellitus with other circulatory complications	ICD-10-CM
Diabetes	E10.6	Type 1 diabetes mellitus with other specified complications	ICD-10-CM
Diabetes	E10.61	Type 1 diabetes mellitus with diabetic arthropathy	ICD-10-CM
Diabetes	E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
Diabetes	E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM
Diabetes	E10.62	Type 1 diabetes mellitus with skin complications	ICD-10-CM
Diabetes	E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM
Diabetes	E10.621	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM
Diabetes	E10.622	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM
Diabetes	E10.628	Type 1 diabetes mellitus with other skin complications	ICD-10-CM
Diabetes	E10.63	Type 1 diabetes mellitus with oral complications	ICD-10-CM
Diabetes	E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM
Diabetes	E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM
Diabetes	E10.64	Type 1 diabetes mellitus with hypoglycemia	ICD-10-CM
Diabetes	E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM
Diabetes	E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM
Diabetes	E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM
Diabetes	E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM
Diabetes	E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM
Diabetes	E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM
Diabetes	E11	Type 2 diabetes mellitus	ICD-10-CM
Diabetes	E11.0	Type 2 diabetes mellitus with hyperosmolarity	ICD-10-CM
Diabetes	E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
Diabetes	E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
Diabetes	E11.1	Type 2 diabetes mellitus with ketoacidosis	ICD-10-CM
Diabetes	E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	ICD-10-CM
Diabetes	E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	ICD-10-CM
Diabetes	E11.2	Type 2 diabetes mellitus with kidney complications	ICD-10-CM
Diabetes	E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM
Diabetes	E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
Diabetes	E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
Diabetes	E11.3	Type 2 diabetes mellitus with ophthalmic complications	ICD-10-CM
Diabetes	E11.31	Type 2 diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM
Diabetes	E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E11.32	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.33	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.34	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.35	Type 2 diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.352	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM
Diabetes	E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
Diabetes	E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
Diabetes	E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
Diabetes	E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
Diabetes	E11.353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
Diabetes	E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
Diabetes	E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
Diabetes	E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
Diabetes	E11.354	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
Diabetes	E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
Diabetes	E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
Diabetes	E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
Diabetes	E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
Diabetes	E11.355	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
Diabetes	E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
Diabetes	E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
Diabetes	E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
Diabetes	E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM
Diabetes	E11.37	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM
Diabetes	E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
Diabetes	E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
Diabetes	E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
Diabetes	E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
Diabetes	E11.4	Type 2 diabetes mellitus with neurological complications	ICD-10-CM
Diabetes	E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Diabetes	E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Diabetes	E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
Diabetes	E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
Diabetes	E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Diabetes	E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	ICD-10-CM
Diabetes	E11.5	Type 2 diabetes mellitus with circulatory complications	ICD-10-CM
Diabetes	E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
Diabetes	E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
Diabetes	E11.59	Type 2 diabetes mellitus with other circulatory complications	ICD-10-CM
Diabetes	E11.6	Type 2 diabetes mellitus with other specified complications	ICD-10-CM
Diabetes	E11.61	Type 2 diabetes mellitus with diabetic arthropathy	ICD-10-CM
Diabetes	E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
Diabetes	E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM
Diabetes	E11.62	Type 2 diabetes mellitus with skin complications	ICD-10-CM
Diabetes	E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM
Diabetes	E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM
Diabetes	E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM
Diabetes	E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM
Diabetes	E11.63	Type 2 diabetes mellitus with oral complications	ICD-10-CM
Diabetes	E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM
Diabetes	E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM
Diabetes	E11.64	Type 2 diabetes mellitus with hypoglycemia	ICD-10-CM
Diabetes	E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM
Diabetes	E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM
Diabetes	E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM
Diabetes	E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM
Diabetes	E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM
Diabetes	E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM
Diabetes	E13	Other specified diabetes mellitus	ICD-10-CM
Diabetes	E13.0	Other specified diabetes mellitus with hyperosmolarity	ICD-10-CM
Diabetes	E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
Diabetes	E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
Diabetes	E13.1	Other specified diabetes mellitus with ketoacidosis	ICD-10-CM
Diabetes	E13.10	Other specified diabetes mellitus with ketoacidosis without coma	ICD-10-CM
Diabetes	E13.11	Other specified diabetes mellitus with ketoacidosis with coma	ICD-10-CM
Diabetes	E13.2	Other specified diabetes mellitus with kidney complications	ICD-10-CM
Diabetes	E13.21	Other specified diabetes mellitus with diabetic nephropathy	ICD-10-CM
Diabetes	E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E13.29	Other specified diabetes mellitus with other diabetic kidney complication	ICD-10-CM
Diabetes	E13.3	Other specified diabetes mellitus with ophthalmic complications	ICD-10-CM
Diabetes	E13.31	Other specified diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM
Diabetes	E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E13.32	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.33	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.34	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM
Diabetes	E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
Diabetes	E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.35	Other specified diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
Diabetes	E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
Diabetes	E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
Diabetes	E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
Diabetes	E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.352	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
Diabetes	E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
Diabetes	E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
Diabetes	E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
Diabetes	E13.353	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM
Diabetes	E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
Diabetes	E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
Diabetes	E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
Diabetes	E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
Diabetes	E13.354	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM
Diabetes	E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
Diabetes	E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
Diabetes	E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
Diabetes	E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
Diabetes	E13.355	Other specified diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM
Diabetes	E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
Diabetes	E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
Diabetes	E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
Diabetes	E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
Diabetes	E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
Diabetes	E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
Diabetes	E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
Diabetes	E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
Diabetes	E13.36	Other specified diabetes mellitus with diabetic cataract	ICD-10-CM
Diabetes	E13.37	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM
Diabetes	E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
Diabetes	E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
Diabetes	E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
Diabetes	E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
Diabetes	E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
Diabetes	E13.4	Other specified diabetes mellitus with neurological complications	ICD-10-CM
Diabetes	E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
Diabetes	E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
Diabetes	E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
Diabetes	E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
Diabetes	E13.44	Other specified diabetes mellitus with diabetic amyotrophy	ICD-10-CM
Diabetes	E13.49	Other specified diabetes mellitus with other diabetic neurological complication	ICD-10-CM
Diabetes	E13.5	Other specified diabetes mellitus with circulatory complications	ICD-10-CM
Diabetes	E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
Diabetes	E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
Diabetes	E13.59	Other specified diabetes mellitus with other circulatory complications	ICD-10-CM
Diabetes	E13.6	Other specified diabetes mellitus with other specified complications	ICD-10-CM
Diabetes	E13.61	Other specified diabetes mellitus with diabetic arthropathy	ICD-10-CM
Diabetes	E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
Diabetes	E13.618	Other specified diabetes mellitus with other diabetic arthropathy	ICD-10-CM
Diabetes	E13.62	Other specified diabetes mellitus with skin complications	ICD-10-CM
Diabetes	E13.620	Other specified diabetes mellitus with diabetic dermatitis	ICD-10-CM
Diabetes	E13.621	Other specified diabetes mellitus with foot ulcer	ICD-10-CM
Diabetes	E13.622	Other specified diabetes mellitus with other skin ulcer	ICD-10-CM
Diabetes	E13.628	Other specified diabetes mellitus with other skin complications	ICD-10-CM
Diabetes	E13.63	Other specified diabetes mellitus with oral complications	ICD-10-CM
Diabetes	E13.630	Other specified diabetes mellitus with periodontal disease	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	E13.638	Other specified diabetes mellitus with other oral complications	ICD-10-CM
Diabetes	E13.64	Other specified diabetes mellitus with hypoglycemia	ICD-10-CM
Diabetes	E13.641	Other specified diabetes mellitus with hypoglycemia with coma	ICD-10-CM
Diabetes	E13.649	Other specified diabetes mellitus with hypoglycemia without coma	ICD-10-CM
Diabetes	E13.65	Other specified diabetes mellitus with hyperglycemia	ICD-10-CM
Diabetes	E13.69	Other specified diabetes mellitus with other specified complication	ICD-10-CM
Diabetes	E13.8	Other specified diabetes mellitus with unspecified complications	ICD-10-CM
Diabetes	E13.9	Other specified diabetes mellitus without complications	ICD-10-CM
Diabetes	O24.011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	ICD-10-CM
Diabetes	O24.012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	ICD-10-CM
Diabetes	O24.013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	ICD-10-CM
Diabetes	O24.019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	ICD-10-CM
Diabetes	O24.02	Pre-existing type 1 diabetes mellitus, in childbirth	ICD-10-CM
Diabetes	O24.03	Pre-existing type 1 diabetes mellitus, in the puerperium	ICD-10-CM
Diabetes	O24.111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	ICD-10-CM
Diabetes	O24.112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	ICD-10-CM
Diabetes	O24.113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	ICD-10-CM
Diabetes	O24.119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	ICD-10-CM
Diabetes	O24.12	Pre-existing type 2 diabetes mellitus, in childbirth	ICD-10-CM
Diabetes	O24.13	Pre-existing type 2 diabetes mellitus, in the puerperium	ICD-10-CM
Diabetes	O24.311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	ICD-10-CM
Diabetes	O24.312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	ICD-10-CM
Diabetes	O24.313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	ICD-10-CM
Diabetes	O24.319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	ICD-10-CM
Diabetes	O24.32	Unspecified pre-existing diabetes mellitus in childbirth	ICD-10-CM
Diabetes	O24.33	Unspecified pre-existing diabetes mellitus in the puerperium	ICD-10-CM
Diabetes	O24.41	Gestational diabetes mellitus in pregnancy	ICD-10-CM
Diabetes	O24.410	Gestational diabetes mellitus in pregnancy, diet controlled	ICD-10-CM
Diabetes	O24.414	Gestational diabetes mellitus in pregnancy, insulin controlled	ICD-10-CM
Diabetes	O24.415	Gestational diabetes mellitus in pregnancy, controlled by oral hypoglycemic drugs	ICD-10-CM
Diabetes	O24.419	Gestational diabetes mellitus in pregnancy, unspecified control	ICD-10-CM
Diabetes	O24.420	Gestational diabetes mellitus in childbirth, diet controlled	ICD-10-CM
Diabetes	O24.424	Gestational diabetes mellitus in childbirth, insulin controlled	ICD-10-CM
Diabetes	O24.425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	ICD-10-CM
Diabetes	O24.429	Gestational diabetes mellitus in childbirth, unspecified control	ICD-10-CM
Diabetes	O24.430	Gestational diabetes mellitus in the puerperium, diet controlled	ICD-10-CM
Diabetes	O24.434	Gestational diabetes mellitus in the puerperium, insulin controlled	ICD-10-CM
Diabetes	O24.435	Gestational diabetes mellitus in puerperium, controlled by oral hypoglycemic drugs	ICD-10-CM
Diabetes	O24.439	Gestational diabetes mellitus in the puerperium, unspecified control	ICD-10-CM
Diabetes	O24.811	Other pre-existing diabetes mellitus in pregnancy, first trimester	ICD-10-CM
Diabetes	O24.812	Other pre-existing diabetes mellitus in pregnancy, second trimester	ICD-10-CM

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

Covariate	Code	Description	Code Type
Diabetes	O24.813	Other pre-existing diabetes mellitus in pregnancy, third trimester	ICD-10-CM
Diabetes	O24.819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	ICD-10-CM
Diabetes	O24.82	Other pre-existing diabetes mellitus in childbirth	ICD-10-CM
Diabetes	O24.83	Other pre-existing diabetes mellitus in the puerperium	ICD-10-CM
Diabetes	O24.911	Unspecified diabetes mellitus in pregnancy, first trimester	ICD-10-CM
Diabetes	O24.912	Unspecified diabetes mellitus in pregnancy, second trimester	ICD-10-CM
Diabetes	O24.913	Unspecified diabetes mellitus in pregnancy, third trimester	ICD-10-CM
Diabetes	O24.919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	ICD-10-CM
Diabetes	O24.92	Unspecified diabetes mellitus in childbirth	ICD-10-CM
Pulmonary arterial hypertension	416	Primary pulmonary hypertension	ICD-9-CM
Pulmonary arterial hypertension	416.0	Primary pulmonary hypertension	ICD-9-CM
Pulmonary arterial hypertension	416.2	Chronic pulmonary embolism	ICD-9-CM
Pulmonary arterial hypertension	416.8	Other chronic pulmonary heart diseases	ICD-9-CM
Pulmonary arterial hypertension	416.9	Unspecified chronic pulmonary heart disease	ICD-9-CM
Pulmonary arterial hypertension	I27.0	Primary pulmonary hypertension	ICD-10-CM
Pulmonary arterial hypertension	I27.20	Pulmonary hypertension, unspecified	ICD-10-CM
Pulmonary arterial hypertension	I27.21	Secondary pulmonary arterial hypertension	ICD-10-CM
Pulmonary arterial hypertension	I27.22	Pulmonary hypertension due to left heart disease	ICD-10-CM
Pulmonary arterial hypertension	I27.23	Pulmonary hypertension due to lung diseases and hypoxia	ICD-10-CM
Pulmonary arterial hypertension	I27.24	Chronic thromboembolic pulmonary hypertension	ICD-10-CM
Pulmonary arterial hypertension	I27.29	Other secondary pulmonary hypertension	ICD-10-CM
Pulmonary arterial hypertension	I27.8	Other specified pulmonary heart diseases	ICD-10-CM
Pulmonary arterial hypertension	I27.81	Cor pulmonale (chronic)	ICD-10-CM
Pulmonary arterial hypertension	I27.82	Chronic pulmonary embolism	ICD-10-CM
Pulmonary arterial hypertension	I27.83	Eisenmenger's syndrome	ICD-10-CM
Pulmonary arterial hypertension	I27.89	Other specified pulmonary heart diseases	ICD-10-CM

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

Covariate	Code	Description	Code Type
Pulmonary arterial hypertension	I27.9	Pulmonary heart disease, unspecified	ICD-10-CM
Fetal growth retardation	656.5	Poor fetal growth affecting management of mother	ICD-9-CM
Fetal growth retardation	656.50	Poor fetal growth, affecting management of mother, unspecified as to episode of care	ICD-9-CM
Fetal growth retardation	656.51	Poor fetal growth, affecting management of mother, delivered	ICD-9-CM
Fetal growth retardation	656.53	Poor fetal growth, affecting management of mother, antepartum condition or complication	ICD-9-CM
Fetal growth retardation	764	Slow fetal growth and fetal malnutrition	ICD-9-CM
Fetal growth retardation	764.0	Light-for-dates without mention of fetal malnutrition	ICD-9-CM
Fetal growth retardation	764.00	Light-for-dates without mention of fetal malnutrition, unspecified (weight)	ICD-9-CM
Fetal growth retardation	764.01	Light-for-dates without mention of fetal malnutrition, less than 500 grams	ICD-9-CM
Fetal growth retardation	764.02	Light-for-dates without mention of fetal malnutrition, 500-749 grams	ICD-9-CM
Fetal growth retardation	764.03	Light-for-dates without mention of fetal malnutrition, 750-999 grams	ICD-9-CM
Fetal growth retardation	764.04	Light-for-dates without mention of fetal malnutrition, 1,000-1,249 grams	ICD-9-CM
Fetal growth retardation	764.05	Light-for-dates without mention of fetal malnutrition, 1,250-1,499 grams	ICD-9-CM
Fetal growth retardation	764.06	Light-for-dates without mention of fetal malnutrition, 1,500-1,749 grams	ICD-9-CM
Fetal growth retardation	764.07	Light-for-dates without mention of fetal malnutrition, 1,750-1,999 grams	ICD-9-CM
Fetal growth retardation	764.08	Light-for-dates without mention of fetal malnutrition, 2,000-2,499 grams	ICD-9-CM
Fetal growth retardation	764.09	Light-for-dates without mention of fetal malnutrition, 2,500 or more grams	ICD-9-CM
Fetal growth retardation	764.1	Light-for-dates with signs of fetal malnutrition	ICD-9-CM
Fetal growth retardation	764.10	Light-for-dates with signs of fetal malnutrition, unspecified (weight)	ICD-9-CM
Fetal growth retardation	764.11	Light-for-dates with signs of fetal malnutrition, less than 500 grams	ICD-9-CM
Fetal growth retardation	764.12	Light-for-dates with signs of fetal malnutrition, 500-749 grams	ICD-9-CM
Fetal growth retardation	764.13	Light-for-dates with signs of fetal malnutrition, 750-999 grams	ICD-9-CM
Fetal growth retardation	764.14	Light-for-dates with signs of fetal malnutrition, 1,000-1,249 grams	ICD-9-CM
Fetal growth retardation	764.15	Light-for-dates with signs of fetal malnutrition, 1,250-1,499 grams	ICD-9-CM
Fetal growth retardation	764.16	Light-for-dates with signs of fetal malnutrition, 1,500-1,749 grams	ICD-9-CM
Fetal growth retardation	764.17	Light-for-dates with signs of fetal malnutrition, 1,750-1,999 grams	ICD-9-CM
Fetal growth retardation	764.18	Light-for-dates with signs of fetal malnutrition, 2,000-2,499 grams	ICD-9-CM
Fetal growth retardation	764.19	Light-for-dates with signs of fetal malnutrition, 2,500 or more grams	ICD-9-CM
Fetal growth retardation	764.2	Fetal malnutrition without mention of "light-for-dates"	ICD-9-CM
Fetal growth retardation	764.20	Fetal malnutrition without mention of "light-for-dates", unspecified (weight)	ICD-9-CM
Fetal growth retardation	764.21	Fetal malnutrition without mention of "light-for-dates", less than 500 grams	ICD-9-CM
Fetal growth retardation	764.22	Fetal malnutrition without mention of "light-for-dates", 500-749 grams	ICD-9-CM
Fetal growth retardation	764.23	Fetal malnutrition without mention of "light-for-dates", 750-999 grams	ICD-9-CM
Fetal growth retardation	764.24	Fetal malnutrition without mention of "light-for-dates", 1,000-1,249 grams	ICD-9-CM
Fetal growth retardation	764.25	Fetal malnutrition without mention of "light-for-dates", 1,250-1,499 grams	ICD-9-CM
Fetal growth retardation	764.26	Fetal malnutrition without mention of "light-for-dates", 1,500-1,749 grams	ICD-9-CM
Fetal growth retardation	764.27	Fetal malnutrition without mention of "light-for-dates", 1,750-1,999 grams	ICD-9-CM
Fetal growth retardation	764.28	Fetal malnutrition without mention of "light-for-dates", 2,000-2,499 grams	ICD-9-CM
Fetal growth retardation	764.29	Fetal malnutrition without mention of "light-for-dates", 2,500 or more grams	ICD-9-CM
Fetal growth retardation	764.9	Unspecified fetal growth retardation	ICD-9-CM
Fetal growth retardation	764.90	Unspecified fetal growth retardation, unspecified (weight)	ICD-9-CM

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

Covariate	Code	Description	Code Type
Fetal growth retardation	764.91	Unspecified fetal growth retardation, less than 500 grams	ICD-9-CM
Fetal growth retardation	764.92	Unspecified fetal growth retardation, 500-749 grams	ICD-9-CM
Fetal growth retardation	764.93	Unspecified fetal growth retardation, 750-999 grams	ICD-9-CM
Fetal growth retardation	764.94	Unspecified fetal growth retardation, 1,000-1,249 grams	ICD-9-CM
Fetal growth retardation	764.95	Unspecified fetal growth retardation, 1,250-1,499 grams	ICD-9-CM
Fetal growth retardation	764.96	Unspecified fetal growth retardation, 1,500-1,749 grams	ICD-9-CM
Fetal growth retardation	764.97	Unspecified fetal growth retardation, 1,750-1,999 grams	ICD-9-CM
Fetal growth retardation	764.98	Unspecified fetal growth retardation, 2,000-2,499 grams	ICD-9-CM
Fetal growth retardation	764.99	Unspecified fetal growth retardation, 2,500 or more grams	ICD-9-CM
Fetal growth retardation	V28.4	Antenatal screening for fetal growth retardation using ultrasonics	ICD-9-CM
Fetal growth retardation	O36.5110	Maternal care for known or suspected placental insufficiency, first trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5111	Maternal care for known or suspected placental insufficiency, first trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5112	Maternal care for known or suspected placental insufficiency, first trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5113	Maternal care for known or suspected placental insufficiency, first trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5114	Maternal care for known or suspected placental insufficiency, first trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5115	Maternal care for known or suspected placental insufficiency, first trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5119	Maternal care for known or suspected placental insufficiency, first trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5120	Maternal care for known or suspected placental insufficiency, second trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5121	Maternal care for known or suspected placental insufficiency, second trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5122	Maternal care for known or suspected placental insufficiency, second trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5123	Maternal care for known or suspected placental insufficiency, second trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5124	Maternal care for known or suspected placental insufficiency, second trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5125	Maternal care for known or suspected placental insufficiency, second trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5129	Maternal care for known or suspected placental insufficiency, second trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5130	Maternal care for known or suspected placental insufficiency, third trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5131	Maternal care for known or suspected placental insufficiency, third trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5132	Maternal care for known or suspected placental insufficiency, third trimester, fetus 2	ICD-10-CM

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

Covariate	Code	Description	Code Type
Fetal growth retardation	O36.5133	Maternal care for known or suspected placental insufficiency, third trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5134	Maternal care for known or suspected placental insufficiency, third trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5135	Maternal care for known or suspected placental insufficiency, third trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5139	Maternal care for known or suspected placental insufficiency, third trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5190	Maternal care for known or suspected placental insufficiency, unspecified trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5191	Maternal care for known or suspected placental insufficiency, unspecified trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5192	Maternal care for known or suspected placental insufficiency, unspecified trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5193	Maternal care for known or suspected placental insufficiency, unspecified trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5194	Maternal care for known or suspected placental insufficiency, unspecified trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5195	Maternal care for known or suspected placental insufficiency, unspecified trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5199	Maternal care for known or suspected placental insufficiency, unspecified trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5910	Maternal care for other known or suspected poor fetal growth, first trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5911	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5912	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5913	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5914	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5915	Maternal care for other known or suspected poor fetal growth, first trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5919	Maternal care for other known or suspected poor fetal growth, first trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5920	Maternal care for other known or suspected poor fetal growth, second trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5921	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5922	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5923	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 3	ICD-10-CM

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

Covariate	Code	Description	Code Type
Fetal growth retardation	O36.5924	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5925	Maternal care for other known or suspected poor fetal growth, second trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5929	Maternal care for other known or suspected poor fetal growth, second trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5930	Maternal care for other known or suspected poor fetal growth, third trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5931	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5932	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5933	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5934	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5935	Maternal care for other known or suspected poor fetal growth, third trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5939	Maternal care for other known or suspected poor fetal growth, third trimester, other fetus	ICD-10-CM
Fetal growth retardation	O36.5990	Maternal care for other known or suspected poor fetal growth, unspecified trimester, not applicable or unspecified	ICD-10-CM
Fetal growth retardation	O36.5991	Maternal care for other known or suspected poor fetal growth, unspecified trimester, fetus 1	ICD-10-CM
Fetal growth retardation	O36.5992	Maternal care for other known or suspected poor fetal growth, unspecified trimester, fetus 2	ICD-10-CM
Fetal growth retardation	O36.5993	Maternal care for other known or suspected poor fetal growth, unspecified trimester, fetus 3	ICD-10-CM
Fetal growth retardation	O36.5994	Maternal care for other known or suspected poor fetal growth, unspecified trimester, fetus 4	ICD-10-CM
Fetal growth retardation	O36.5995	Maternal care for other known or suspected poor fetal growth, unspecified trimester, fetus 5	ICD-10-CM
Fetal growth retardation	O36.5999	Maternal care for other known or suspected poor fetal growth, unspecified trimester, other fetus	ICD-10-CM
Fetal growth retardation	P05.00	Newborn light for gestational age, unspecified weight	ICD-10-CM
Fetal growth retardation	P05.01	Newborn light for gestational age, less than 500 grams	ICD-10-CM
Fetal growth retardation	P05.02	Newborn light for gestational age, 500-749 grams	ICD-10-CM
Fetal growth retardation	P05.03	Newborn light for gestational age, 750-999 grams	ICD-10-CM
Fetal growth retardation	P05.04	Newborn light for gestational age, 1000-1249 grams	ICD-10-CM
Fetal growth retardation	P05.05	Newborn light for gestational age, 1250-1499 grams	ICD-10-CM
Fetal growth retardation	P05.06	Newborn light for gestational age, 1500-1749 grams	ICD-10-CM
Fetal growth retardation	P05.07	Newborn light for gestational age, 1750-1999 grams	ICD-10-CM
Fetal growth retardation	P05.08	Newborn light for gestational age, 2000-2499 grams	ICD-10-CM
Fetal growth retardation	P05.09	Newborn light for gestational age, 2500 grams and over	ICD-10-CM

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

Covariate	Code	Description	Code Type
Fetal growth retardation	P05.10	Newborn small for gestational age, unspecified weight	ICD-10-CM
Fetal growth retardation	P05.11	Newborn small for gestational age, less than 500 grams	ICD-10-CM
Fetal growth retardation	P05.12	Newborn small for gestational age, 500-749 grams	ICD-10-CM
Fetal growth retardation	P05.13	Newborn small for gestational age, 750-999 grams	ICD-10-CM
Fetal growth retardation	P05.14	Newborn small for gestational age, 1000-1249 grams	ICD-10-CM
Fetal growth retardation	P05.15	Newborn small for gestational age, 1250-1499 grams	ICD-10-CM
Fetal growth retardation	P05.16	Newborn small for gestational age, 1500-1749 grams	ICD-10-CM
Fetal growth retardation	P05.17	Newborn small for gestational age, 1750-1999 grams	ICD-10-CM
Fetal growth retardation	P05.18	Newborn small for gestational age, 2000-2499 grams	ICD-10-CM
Fetal growth retardation	P05.19	Newborn small for gestational age, other	ICD-10-CM
Fetal growth retardation	P05.2	Newborn affected by fetal (intrauterine) malnutrition not light or small for gestational age	ICD-10-CM
Fetal growth retardation	P05.9	Newborn affected by slow intrauterine growth, unspecified	ICD-10-CM
Fetal growth retardation	Z36.4	Encounter for antenatal screening for fetal growth retardation	ICD-10-CM
Preeclampsia	642.0	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Preeclampsia	642.00	Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.01	Benign essential hypertension with delivery	ICD-9-CM
Preeclampsia	642.02	Benign essential hypertension, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.03	Benign essential hypertension antepartum	ICD-9-CM
Preeclampsia	642.04	Benign essential hypertension, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.1	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Preeclampsia	642.10	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.11	Hypertension secondary to renal disease, with delivery	ICD-9-CM
Preeclampsia	642.12	Hypertension secondary to renal disease, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.13	Hypertension secondary to renal disease, antepartum	ICD-9-CM
Preeclampsia	642.14	Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.2	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium	ICD-9-CM
Preeclampsia	642.20	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.21	Other pre-existing hypertension, with delivery	ICD-9-CM
Preeclampsia	642.22	Other pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.23	Other pre-existing hypertension, antepartum	ICD-9-CM
Preeclampsia	642.24	Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication	ICD-9-CM

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

Covariate	Code	Description	Code Type
Preeclampsia	642.3	Transient hypertension of pregnancy	ICD-9-CM
Preeclampsia	642.30	Transient hypertension of pregnancy, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.31	Transient hypertension of pregnancy, with delivery	ICD-9-CM
Preeclampsia	642.32	Transient hypertension of pregnancy, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.33	Transient hypertension of pregnancy, antepartum	ICD-9-CM
Preeclampsia	642.34	Transient hypertension of pregnancy, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.40	Mild or unspecified pre-eclampsia, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.4	Mild or unspecified pre-eclampsia	ICD-9-CM
Preeclampsia	642.41	Mild or unspecified pre-eclampsia, with delivery	ICD-9-CM
Preeclampsia	642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.43	Mild or unspecified pre-eclampsia, antepartum	ICD-9-CM
Preeclampsia	642.44	Mild or unspecified pre-eclampsia, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.50	Severe pre-eclampsia, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.5	Severe pre-eclampsia	ICD-9-CM
Preeclampsia	642.51	Severe pre-eclampsia, with delivery	ICD-9-CM
Preeclampsia	642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.53	Severe pre-eclampsia, antepartum	ICD-9-CM
Preeclampsia	642.54	Severe pre-eclampsia, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.6	Eclampsia complicating pregnancy, childbirth or the puerperium	ICD-9-CM
Preeclampsia	642.60	Eclampsia complicating pregnancy, childbirth or the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.61	Eclampsia, with delivery	ICD-9-CM
Preeclampsia	642.62	Eclampsia, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.63	Eclampsia, antepartum	ICD-9-CM
Preeclampsia	642.64	Eclampsia, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.7	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension	ICD-9-CM
Preeclampsia	642.70	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	ICD-9-CM
Preeclampsia	642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.73	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, antepartum	ICD-9-CM
Preeclampsia	642.74	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, postpartum condition or complication	ICD-9-CM
Preeclampsia	642.9	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium	ICD-9-CM
Preeclampsia	642.90	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	ICD-9-CM
Preeclampsia	642.91	Unspecified hypertension, with delivery	ICD-9-CM

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

Covariate	Code	Description	Code Type
Preeclampsia	642.92	Unspecified hypertension, with delivery, with current postpartum complication	ICD-9-CM
Preeclampsia	642.93	Unspecified hypertension antepartum	ICD-9-CM
Preeclampsia	642.94	Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	ICD-9-CM
Preeclampsia	O10.011	Pre-existing essential hypertension complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.012	Pre-existing essential hypertension complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O10.013	Pre-existing essential hypertension complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.019	Pre-existing essential hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.02	Pre-existing essential hypertension complicating childbirth	ICD-10-CM
Preeclampsia	O10.03	Pre-existing essential hypertension complicating the puerperium	ICD-10-CM
Preeclampsia	O10.111	Pre-existing hypertensive heart disease complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.112	Pre-existing hypertensive heart disease complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O10.113	Pre-existing hypertensive heart disease complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.119	Pre-existing hypertensive heart disease complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.12	Pre-existing hypertensive heart disease complicating childbirth	ICD-10-CM
Preeclampsia	O10.13	Pre-existing hypertensive heart disease complicating the puerperium	ICD-10-CM
Preeclampsia	O10.211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O10.213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	ICD-10-CM
Preeclampsia	O10.23	Pre-existing hypertensive chronic kidney disease complicating the puerperium	ICD-10-CM
Preeclampsia	O10.311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O10.313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	ICD-10-CM
Preeclampsia	O10.33	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	ICD-10-CM
Preeclampsia	O10.411	Pre-existing secondary hypertension complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.412	Pre-existing secondary hypertension complicating pregnancy, second trimester	ICD-10-CM

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

Covariate	Code	Description	Code Type
Preeclampsia	O10.413	Pre-existing secondary hypertension complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.419	Pre-existing secondary hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.42	Pre-existing secondary hypertension complicating childbirth	ICD-10-CM
Preeclampsia	O10.43	Pre-existing secondary hypertension complicating the puerperium	ICD-10-CM
Preeclampsia	O10.911	Unspecified pre-existing hypertension complicating pregnancy, first trimester	ICD-10-CM
Preeclampsia	O10.912	Unspecified pre-existing hypertension complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O10.913	Unspecified pre-existing hypertension complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.919	Unspecified pre-existing hypertension complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O10.92	Unspecified pre-existing hypertension complicating childbirth	ICD-10-CM
Preeclampsia	O10.93	Unspecified pre-existing hypertension complicating the puerperium	ICD-10-CM
Preeclampsia	O11	Pre-existing hypertension with pre-eclampsia	ICD-10-CM
Preeclampsia	O11.1	Pre-existing hypertension with pre-eclampsia, first trimester	ICD-10-CM
Preeclampsia	O11.2	Pre-existing hypertension with pre-eclampsia, second trimester	ICD-10-CM
Preeclampsia	O11.3	Pre-existing hypertension with pre-eclampsia, third trimester	ICD-10-CM
Preeclampsia	O11.4	Pre-existing hypertension with pre-eclampsia, complicating childbirth	ICD-10-CM
Preeclampsia	O11.5	Pre-existing hypertension with pre-eclampsia, complicating the puerperium	ICD-10-CM
Preeclampsia	O11.9	Pre-existing hypertension with pre-eclampsia, unspecified trimester	ICD-10-CM
Preeclampsia	O13	Gestational [pregnancy-induced] hypertension without significant proteinuria	ICD-10-CM
Preeclampsia	O13.1	Gestational [pregnancy-induced] hypertension without significant proteinuria, first trimester	ICD-10-CM
Preeclampsia	O13.2	Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester	ICD-10-CM
Preeclampsia	O13.3	Gestational [pregnancy-induced] hypertension without significant proteinuria, third trimester	ICD-10-CM
Preeclampsia	O13.4	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	ICD-10-CM
Preeclampsia	O13.5	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating the puerperium	ICD-10-CM
Preeclampsia	O13.9	Gestational [pregnancy-induced] hypertension without significant proteinuria, unspecified trimester	ICD-10-CM
Preeclampsia	O14	Pre-eclampsia	ICD-10-CM
Preeclampsia	O14.0	Mild to moderate pre-eclampsia	ICD-10-CM
Preeclampsia	O14.00	Mild to moderate pre-eclampsia, unspecified trimester	ICD-10-CM
Preeclampsia	O14.02	Mild to moderate pre-eclampsia, second trimester	ICD-10-CM
Preeclampsia	O14.03	Mild to moderate pre-eclampsia, third trimester	ICD-10-CM
Preeclampsia	O14.04	Mild to moderate pre-eclampsia, complicating childbirth	ICD-10-CM
Preeclampsia	O14.05	Mild to moderate pre-eclampsia, complicating the puerperium	ICD-10-CM
Preeclampsia	O14.1	Severe pre-eclampsia	ICD-10-CM
Preeclampsia	O14.10	Severe pre-eclampsia, unspecified trimester	ICD-10-CM
Preeclampsia	O14.12	Severe pre-eclampsia, second trimester	ICD-10-CM
Preeclampsia	O14.13	Severe pre-eclampsia, third trimester	ICD-10-CM

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

Covariate	Code	Description	Code Type
Preeclampsia	O14.14	Severe pre-eclampsia complicating childbirth	ICD-10-CM
Preeclampsia	O14.15	Severe pre-eclampsia, complicating the puerperium	ICD-10-CM
Preeclampsia	O14.20	HELLP syndrome (HELLP), unspecified trimester	ICD-10-CM
Preeclampsia	O14.22	HELLP syndrome (HELLP), second trimester	ICD-10-CM
Preeclampsia	O14.23	HELLP syndrome (HELLP), third trimester	ICD-10-CM
Preeclampsia	O14.24	HELLP syndrome, complicating childbirth	ICD-10-CM
Preeclampsia	O14.25	HELLP syndrome, complicating the puerperium	ICD-10-CM
Preeclampsia	O14.9	Unspecified pre-eclampsia	ICD-10-CM
Preeclampsia	O14.90	Unspecified pre-eclampsia, unspecified trimester	ICD-10-CM
Preeclampsia	O14.92	Unspecified pre-eclampsia, second trimester	ICD-10-CM
Preeclampsia	O14.93	Unspecified pre-eclampsia, third trimester	ICD-10-CM
Preeclampsia	O14.94	Unspecified pre-eclampsia, complicating childbirth	ICD-10-CM
Preeclampsia	O14.95	Unspecified pre-eclampsia, complicating the puerperium	ICD-10-CM
Preeclampsia	O15.00	Eclampsia complicating pregnancy, unspecified trimester	ICD-10-CM
Preeclampsia	O15.02	Eclampsia complicating pregnancy, second trimester	ICD-10-CM
Preeclampsia	O15.03	Eclampsia complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O15.1	Eclampsia complicating labor	ICD-10-CM
Preeclampsia	O15.2	Eclampsia complicating the puerperium	ICD-10-CM
Preeclampsia	O15.9	Eclampsia, unspecified as to time period	ICD-10-CM
Preeclampsia	O16.1	Unspecified maternal hypertension, first trimester	ICD-10-CM
Preeclampsia	O16.2	Unspecified maternal hypertension, second trimester	ICD-10-CM
Preeclampsia	O16.3	Unspecified maternal hypertension, third trimester	ICD-10-CM
Preeclampsia	O16.4	Unspecified maternal hypertension, complicating childbirth	ICD-10-CM
Preeclampsia	O16.5	Unspecified maternal hypertension, complicating the puerperium	ICD-10-CM
Preeclampsia	O16.9	Unspecified maternal hypertension, unspecified trimester	ICD-10-CM

Appendix G. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.4.4, to estimate phosphodiesterase type 5 (PDE5) inhibitor use and its indications among pregnant women in the Sentinel Distributed Database (SDD).

Query Period (Binds Delivery Date): January 1, 2001- March 31, 2018
Coverage Requirement: Medical & Drug Coverage
Enrollment Requirement (Prior to Delivery): 391 Days (longest duration 301 days + 90 days)
Enrollment Requirement (After Delivery): 0 Days
Enrollment Gap: 30 Days
Age Groups (calculated at age at delivery date): 15-24, 25-34, 35-44, 45-50 years
Sex: Females
Stratifications: Pregnancy period and year, calendar year, age group and calendar year
Freeze data: No
Baseline table: Yes

Scenario	Pregnancy Episode Creation					Exposure Episode Creation						Inclusion/Exclusion Criteria				Minimum number of instances the condition should be found in evaluation window		
	Delivery Definition	Delivery Washout Period (Days)	Pregnancy Duration Definition (Pre/PostTerm Codes)	Pregnancy Duration in Absence of Pre/PostTerm Codes (Days)	Pre/PostTerm Evaluation Window (Days)	Exposure	Washout (Days)	Episode Gap (Days)	ITT	Blackout, Pregnancy Start	Blackout, Delivery	Pre-Pregnancy Start Evaluation (Days)	Cohort Definition	Condition	Caresetting		Include or Exclude	Evaluation Window
1	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	PDE5 Inhibitors	0	60	N/A	N/A	No	90	Include all valid medical product exposures					
2	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Sildenafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures					
3	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Tadalafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures					
4	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Vardenafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures					
5	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Avanafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures					
6	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	PDE5 Inhibitors	0	60	N/A	N/A	No	90	Include all valid medical product exposures	PDE5 Inhibitors	Any	Include	-90, 301	1
7	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Sildenafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures	Sildenafil	Any	Include	-90, 301	1
8	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Tadalafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures	Tadalafil	Any	Include	-90, 301	1
9	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Vardenafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures	Vardenafil	Any	Include	-90, 301	1
10	Use Algorithm Codes*	301	Use Algorithm Codes*	273	7	Avanafil	0	60	N/A	N/A	No	90	Include all valid medical product exposures	Avanafil	Any	Include	-90, 301	1

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

Appendix H. Specifications Defining Baseline Covariates Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.4.4, to estimate phosphodiesterase type 5 (PDE5) inhibitor use and its indications among pregnant women in the Sentinel Distributed Database (SDD).

Covariates					
Covariate	Care setting	Principal diagnosis position	Evaluation period start (days from pregnancy start)	Evaluation period end (days from pregnancy start)	Minimum number of instances the covariate should be found in evaluation period
Sexual implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Urogenital implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Cardiovascular implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Pulmonary implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Cutaneous implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Gastrointestinal implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Reproductive implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Neurological implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Pulmonary arterial hypertension	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Fetal growth retardation	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Preeclampsia	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Lupus	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
Diabetes	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1
None of the conditions of interest	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	301	1