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

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Overview for Request cder_mpl1r_wp111_nsdp_v01

Request ID: cder_mpl1r_wp111_nsdp_v01

Request Description: This report contains estimates of phosphodiesterase type 5 (PDE5) inhibitor use among reproductive-aged women in the Sentinel Distributed Database (SDD). This is report 1 of 2. Report 2 contains estimates of 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 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 use among reproductive-aged women. The number of patients with exposures was calculated overall and stratified by age group and year.

Cohort Eligibility Criteria: Cohorts were restricted to women only. Incident and prevalent users were identified. To qualify for the incident cohort, eligible women were required to be enrolled in plans with medical and drug coverage for 183 days prior to the dispensing of the exposure of interest. For the prevalent cohort, eligible women were required to be enrolled in plans with medical and drug coverage for 90 days prior to the dispensing of the exposure of interest. Additionally, eligible women in the incident cohort were required to have continuous enrollment of both medical and drug coverage for 90 days after the dispensing of interest. Gaps in coverage of up to 30 days were allowed. The following age groups were analyzed: 15-24, 25-34, 35-44, and 45-50 years.

Exposures of Interest: The exposures of interest were sildenafil, tadalafil, vardenafil, and avanafil. These exposures were identified using National Drug Codes (NDC). See Appendix B 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 C for procedure codes used to define exposures in this request.

Covariates: Indications and conditions among women in both prevalent and incident cohorts were evaluated in the 90 days prior to and following the dispensing of the exposure of interest. 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 D for a 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.

Please refer to Appendices E and F for detailed specifications of parameters used in this request.

Limitations: Algorithms used to define exposures and covariates are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

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

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**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 1. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, Overall

	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Prevalent				
<i>Any PDE5 Inhibitor</i>	7,066	55,313	47,991,137	14.72
<i>Sildenafil</i>	5,393	37,068	47,991,137	11.24
<i>Tadalafil</i>	1,616	17,167	47,991,137	3.37
<i>Vardenafil</i>	480	1,072	47,991,137	1.00
<i>Avanafil</i>	7	18	47,991,137	0.01
Incident				
<i>Any PDE5 Inhibitor</i>	4,825	5,362	39,203,639	12.31
<i>Sildenafil</i>	3,727	4,077	39,203,639	9.51
<i>Tadalafil</i>	782	829	39,203,639	1.99
<i>Vardenafil</i>	400	455	39,203,639	1.02
<i>Avanafil</i>	2	2	39,203,639	0.01

¹Number of users: number of patients with at least one dispensing

²Number of adjusted dispensings: number of dispensings adjusted to count same-day dispensings with the same generic name only once

³Eligible Women: the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

Year	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Prevalent				
<i>Any PDE5 Inhibitor</i>				
2001	137	183	2,137,884	6.41
2002	171	240	2,158,346	7.92
2003	208	298	2,138,041	9.73
2004	236	411	2,283,957	10.33
2005	239	446	2,359,822	10.13
2006	407	1,228	6,257,386	6.50
2007	528	1,776	7,086,699	7.45
2008	1,012	3,529	14,516,926	6.97
2009	1,020	4,154	14,144,332	7.21
2010	935	3,942	13,356,982	7.00
2011	974	4,469	12,840,287	7.59
2012	1,033	5,017	12,887,551	8.02
2013	1,086	5,241	13,388,018	8.11
2014	1,167	5,573	13,880,910	8.41
2015	1,183	6,180	14,171,154	8.35
2016	1,237	6,652	14,661,150	8.44
2017	1,198	5,687	13,110,322	9.14
2018	128	287	2,246,105	5.70
<i>Sildenafil</i>				
2001	137	183	2,137,884	6.41
2002	171	240	2,158,346	7.92
2003	208	298	2,138,041	9.73
2004	199	358	2,283,957	8.71
2005	167	345	2,359,822	7.08
2006	321	1,066	6,257,386	5.13
2007	429	1,587	7,086,699	6.05
2008	878	3,210	14,516,926	6.05
2009	855	3,732	14,144,332	6.04
2010	742	3,146	13,356,982	5.56
2011	696	3,081	12,840,287	5.42
2012	690	3,155	12,887,551	5.35
2013	734	3,264	13,388,018	5.48
2014	817	3,404	13,880,910	5.89
2015	779	3,433	14,171,154	5.50
2016	776	3,449	14,661,150	5.29
2017	764	2,991	13,110,322	5.83
2018	63	126	2,246,105	2.80

Table 2. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

Year	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Prevalent				
<i>Tadalafil</i>				
2001	0	0	2,137,884	0.00
2002	0	0	2,158,346	0.00
2003	0	0	2,138,041	0.00
2004	17	20	2,283,957	0.74
2005	24	25	2,359,822	1.02
2006	27	60	6,257,386	0.43
2007	35	77	7,086,699	0.49
2008	65	185	14,516,926	0.45
2009	115	284	14,144,332	0.81
2010	165	691	13,356,982	1.24
2011	268	1,277	12,840,287	2.09
2012	315	1,761	12,887,551	2.44
2013	342	1,904	13,388,018	2.55
2014	364	2,128	13,880,910	2.62
2015	421	2,723	14,171,154	2.97
2016	482	3,175	14,661,150	3.29
2017	453	2,696	13,110,322	3.46
2018	65	161	2,246,105	2.89
<i>Vardenafil</i>				
2001	0	0	2,137,884	0.00
2002	0	0	2,158,346	0.00
2003	0	0	2,138,041	0.00
2004	26	33	2,283,957	1.14
2005	53	77	2,359,822	2.25
2006	64	103	6,257,386	1.02
2007	70	112	7,086,699	0.99
2008	80	136	14,516,926	0.55
2009	83	138	14,144,332	0.59
2010	63	105	13,356,982	0.47
2011	59	111	12,840,287	0.46
2012	58	101	12,887,551	0.45
2013	37	73	13,388,018	0.28
2014	13	40	13,880,910	0.09
2015	11	21	14,171,154	0.08
2016	9	16	14,661,150	0.06
2017	5	6	13,110,322	0.04
2018	0	0	2,246,105	0.00

Table 2. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

Year	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Prevalent				
<i>Avanafil</i>				
2001	0	0	2,137,884	0.00
2002	0	0	2,158,346	0.00
2003	0	0	2,138,041	0.00
2004	0	0	2,283,957	0.00
2005	0	0	2,359,822	0.00
2006	0	0	6,257,386	0.00
2007	0	0	7,086,699	0.00
2008	0	0	14,516,926	0.00
2009	0	0	14,144,332	0.00
2010	0	0	13,356,982	0.00
2011	0	0	12,840,287	0.00
2012	0	0	12,887,551	0.00
2013	0	0	13,388,018	0.00
2014	2	2	13,880,910	0.01
2015	3	4	14,171,154	0.02
2016	3	12	14,661,150	0.02
2017	0	0	13,110,322	0.00
2018	0	0	2,246,105	0.00
Incident				
<i>Any PDE5 Inhibitor</i>				
2001	116	116	1,900,516	6.10
2002	145	148	1,931,713	7.51
2003	174	175	1,907,066	9.12
2004	190	190	2,052,358	9.26
2005	177	178	2,095,816	8.45
2006	239	241	5,090,744	4.69
2007	280	282	6,001,622	4.67
2008	471	477	11,855,444	3.97
2009	489	494	12,054,535	4.06
2010	401	404	11,381,761	3.52
2011	399	400	10,984,312	3.63
2012	379	384	11,162,509	3.40
2013	363	366	11,472,312	3.16
2014	441	443	11,830,239	3.73
2015	410	412	12,072,687	3.40
2016	381	384	12,597,878	3.02
2017	265	266	10,362,674	2.56
2018	2	2	236,586	0.85

Table 2. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

Year	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Incident				
<i>Sildenafil</i>				
2001	116	116	1,900,516	6.10
2002	145	148	1,931,713	7.51
2003	174	175	1,907,066	9.12
2004	156	156	2,052,358	7.60
2005	118	119	2,095,816	5.63
2006	174	175	5,090,744	3.42
2007	206	207	6,001,622	3.43
2008	376	379	11,855,444	3.17
2009	373	376	12,054,535	3.09
2010	279	282	11,381,761	2.45
2011	257	258	10,984,312	2.34
2012	250	253	11,162,509	2.24
2013	263	263	11,472,312	2.29
2014	358	359	11,830,239	3.03
2015	306	308	12,072,687	2.53
2016	287	289	12,597,878	2.28
2017	211	212	10,362,674	2.04
2018	2	2	236,586	0.85
<i>Tadalafil</i>				
2001	0	0	1,900,516	0.00
2002	0	0	1,931,713	0.00
2003	0	0	1,907,066	0.00
2004	17	17	2,052,358	0.83
2005	19	19	2,095,816	0.91
2006	17	18	5,090,744	0.33
2007	19	19	6,001,622	0.32
2008	40	41	11,855,444	0.34
2009	59	61	12,054,535	0.49
2010	73	73	11,381,761	0.64
2011	101	101	10,984,312	0.92
2012	84	85	11,162,509	0.75
2013	78	79	11,472,312	0.68
2014	81	81	11,830,239	0.68
2015	98	98	12,072,687	0.81
2016	86	86	12,597,878	0.68
2017	51	51	10,362,674	0.49
2018	0	0	236,586	0.00

Table 2. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

Year	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Incident				
<i>Vardenafil</i>				
2001	0	0	1,900,516	0.00
2002	0	0	1,931,713	0.00
2003	0	0	1,907,066	0.00
2004	17	17	2,052,358	0.83
2005	40	40	2,095,816	1.91
2006	48	48	5,090,744	0.94
2007	55	56	6,001,622	0.92
2008	56	57	11,855,444	0.47
2009	57	57	12,054,535	0.47
2010	49	49	11,381,761	0.43
2011	41	41	10,984,312	0.37
2012	46	46	11,162,509	0.41
2013	22	24	11,472,312	0.19
2014	4	4	11,830,239	0.03
2015	5	5	12,072,687	0.04
2016	7	8	12,597,878	0.06
2017	3	3	10,362,674	0.03
2018	0	0	236,586	0.00
<i>Avanafil</i>				
2001	0	0	1,900,516	0.00
2002	0	0	1,931,713	0.00
2003	0	0	1,907,066	0.00
2004	0	0	2,052,358	0.00
2005	0	0	2,095,816	0.00
2006	0	0	5,090,744	0.00
2007	0	0	6,001,622	0.00
2008	0	0	11,855,444	0.00
2009	0	0	12,054,535	0.00
2010	0	0	11,381,761	0.00
2011	0	0	10,984,312	0.00
2012	0	0	11,162,509	0.00
2013	0	0	11,472,312	0.00
2014	0	0	11,830,239	0.00
2015	1	1	12,072,687	0.01
2016	1	1	12,597,878	0.01
2017	0	0	10,362,674	0.00
2018	0	0	236,586	0.00

¹Number of users: number of patients with at least one dispensing

²Number of adjusted dispensings: number of dispensings adjusted to count same-day dispensings with the same generic name only once

³Eligible Women: the number of patients that met all cohort entry criteria on at least one day during the query period

Table 3. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Age Group

Age Group (Years)	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Prevalent				
<i>Any PDE5 Inhibitor</i>				
15-24	574	4,907	15,148,737	3.79
25-34	1,525	9,621	17,867,344	8.54
35-44	2,864	19,646	15,869,918	18.05
45-50	2,716	21,139	11,252,499	24.14
<i>Sildenafil</i>				
15-24	407	3,060	15,148,737	2.69
25-34	1,160	6,202	17,867,344	6.49
35-44	2,195	13,278	15,869,918	13.83
45-50	2,053	14,528	11,252,499	18.24
<i>Tadalafil</i>				
15-24	178	1,790	15,148,737	1.18
25-34	337	3,227	17,867,344	1.89
35-44	616	5,935	15,869,918	3.88
45-50	638	6,215	11,252,499	5.67
<i>Vardenafil</i>				
15-24	34	57	15,148,737	0.22
25-34	102	189	17,867,344	0.57
35-44	195	427	15,869,918	1.23
45-50	168	399	11,252,499	1.49
<i>Avanafil</i>				
15-24	0	0	15,148,737	0.00
25-34	1	5	17,867,344	0.01
35-44	4	8	15,869,918	0.03
45-50	2	5	11,252,499	0.02
Incident				
<i>Any PDE5 Inhibitor</i>				
15-24	346	375	12,103,785	2.86
25-34	1,013	1,099	14,004,808	7.23
35-44	1,915	2,094	13,152,042	14.56
45-50	1,647	1,794	9,531,272	17.28
<i>Sildenafil</i>				
15-24	248	266	12,103,785	2.05
25-34	783	846	14,004,808	5.59
35-44	1,498	1,612	13,152,042	11.39
45-50	1,261	1,353	9,531,272	13.23
<i>Tadalafil</i>				
15-24	78	83	12,103,785	0.64
25-34	162	168	14,004,808	1.16
35-44	277	299	13,152,042	2.11
45-50	268	279	9,531,272	2.81

Table 3. Summary of Phosphodiesterase Type 5 (PDE5) Inhibitor Use Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Age Group

Age Group (Years)	Number of Users ¹	Number of Adjusted Dispensings ²	Eligible Women ³	Number of Users per 100,000 Eligible Women
Incident				
<i>Vardenafil</i>				
15-24	24	26	12,103,785	0.20
25-34	83	86	14,004,808	0.59
35-44	161	182	13,152,042	1.22
45-50	140	161	9,531,272	1.47
<i>Avanafil</i>				
15-24	0	0	12,103,785	0.00
25-34	0	0	14,004,808	0.00
35-44	1	1	13,152,042	0.01
45-50	1	1	9,531,272	0.01

¹Number of users: number of patients with at least one dispensing

²Number of adjusted dispensings: number of dispensings adjusted to count same-day dispensings with the same generic name only once

³Eligible Women: the number of patients that met all cohort entry criteria on at least one day during the query period

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

	Any PDE5 Inhibitor	Sildenafil	Tadalafil	Vardenafil	Avanafil
Total Episodes	55,313	37,068	17,167	1,072	18
Conditions and Indications¹					
Cardiovascular implications	8.6%	8.2%	10.0%	0.1%	0.0%
Cutaneous implications	21.7%	24.1%	16.8%	18.7%	0.0%
Diabetes	10.8%	11.0%	10.4%	7.4%	27.8%
Fetal growth retardation	0.0%	0.1%	0.0%	0.0%	0.0%
Gastrointestinal implications	0.2%	0.2%	0.2%	0.1%	0.0%
Lupus	11.6%	11.3%	12.6%	3.5%	0.0%
Neurological implications	2.4%	2.6%	2.1%	0.8%	11.1%
Preeclampsia	0.2%	0.2%	0.3%	0.0%	0.0%
Pulmonary arterial hypertension	64.8%	60.6%	77.8%	2.6%	0.0%
Pulmonary implications	3.9%	3.5%	4.9%	0.1%	0.0%
Reproductive implications	0.4%	0.5%	0.3%	0.0%	0.0%
Sexual implications	1.0%	1.1%	0.3%	7.6%	5.6%
Urogenital implications	5.9%	6.4%	5.1%	1.2%	0.0%
None of the conditions of interest	18.5%	19.6%	13.0%	64.0%	66.7%

¹Conditions evaluated in the 90 days prior to and following each valid dispensing date of the PDE5 inhibitor of interest

Table 5. Percentage of Incident Phosphodiesterase Type 5 (PDE5) Inhibitor Episodes with Related Conditions and Indications Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018

	Any PDE5 Inhibitor	Sildenafil	Tadalafil	Vardenafil	Avanafil
Total Episodes	5,362	4,077	829	455	2
Conditions and Indications¹					
Cardiovascular implications	5.7%	5.9%	7.6%	0.0%	0.0%
Cutaneous implications	19.1%	19.8%	19.2%	12.5%	0.0%
Diabetes	9.3%	9.7%	8.8%	6.6%	0.0%
Fetal growth retardation	0.1%	0.1%	0.1%	0.0%	0.0%
Gastrointestinal implications	0.2%	0.2%	0.2%	0.0%	0.0%
Lupus	7.4%	7.6%	10.3%	1.3%	0.0%
Neurological implications	2.3%	2.6%	1.4%	0.9%	0.0%
Preeclampsia	0.4%	0.3%	0.7%	0.0%	0.0%
Pulmonary arterial hypertension	29.1%	27.1%	54.3%	1.1%	0.0%
Pulmonary implications	1.8%	1.8%	2.8%	0.2%	0.0%
Reproductive implications	1.3%	1.5%	0.7%	0.0%	0.0%
Sexual implications	6.1%	6.3%	1.9%	12.5%	0.0%
Urogenital implications	4.7%	5.2%	4.1%	1.1%	0.0%
None of the conditions of interest	45.1%	45.1%	32.1%	67.7%	100.0%

¹Conditions evaluated in the 90 days prior to and following each valid dispensing date of the PDE5 inhibitor of interest

Figure 1. Prevalence of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Year

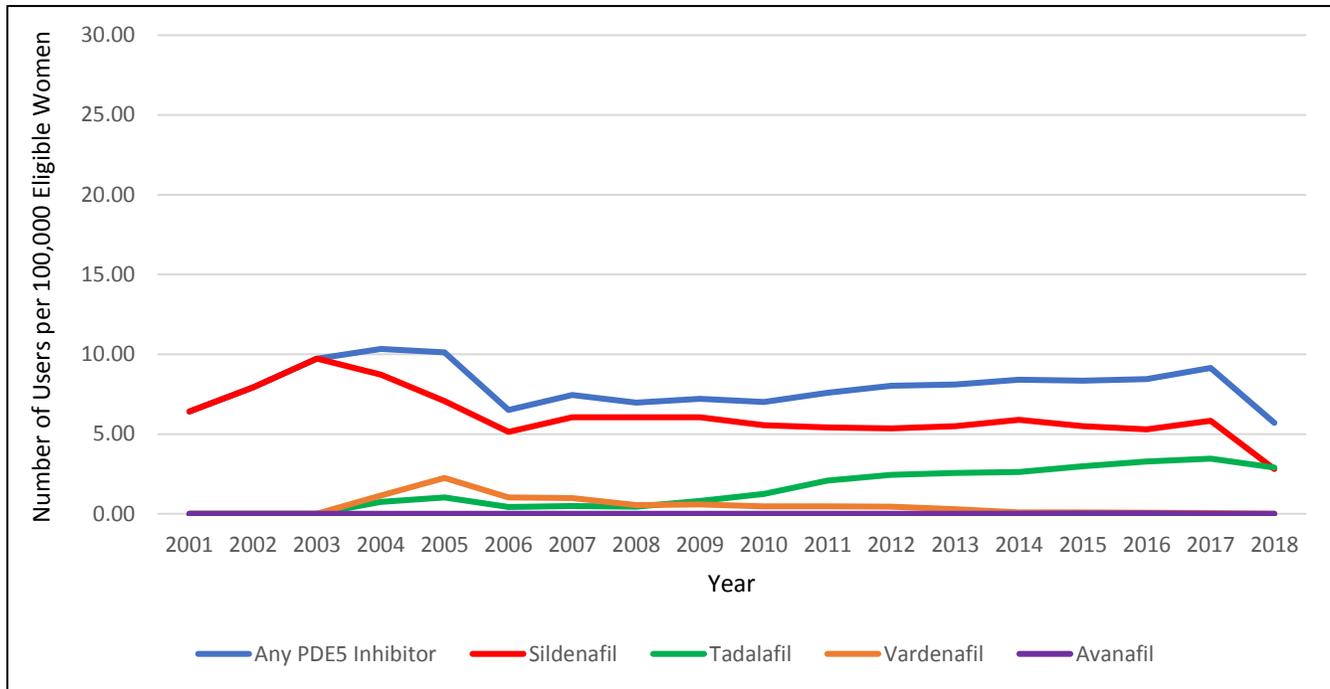
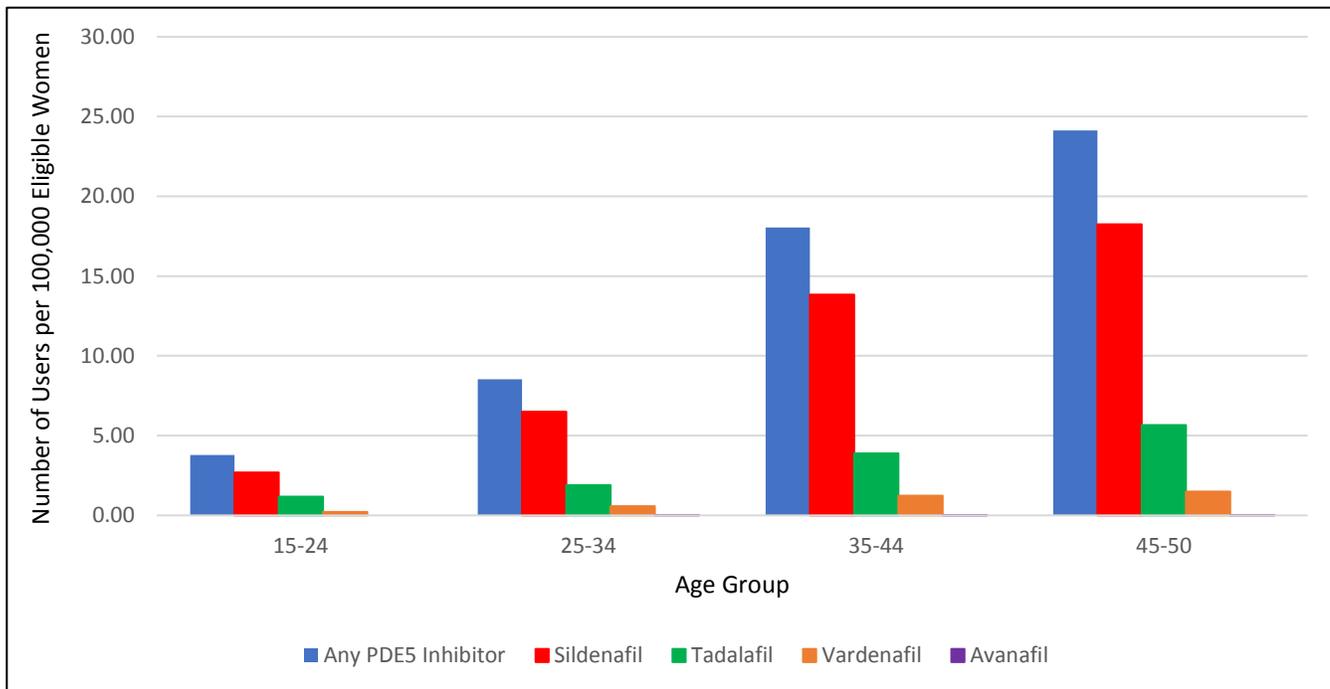


Figure 2. Prevalence of Phosphodiesterase Type 5 (PDE5) Inhibitors Among Reproductive-Aged Women in the Sentinel Distributed Database between January 1, 2001 and March 31, 2018, by Age Group



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 27, 2018)

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 Generic Names Used to Define Exposures in this Request

Generic Name

avanafil
tadalafil
vardenafil HCl
sildenafil citrate

Appendix C. 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 D. 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	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	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

Appendix D. 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	404.01	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
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	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

Appendix D. 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	I13.0	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
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

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Covariate	Code	Description	Code Type
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
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	I73.0	Raynaud's syndrome	ICD-10-CM
Cutaneous implications	I73.00	Raynaud's syndrome without gangrene	ICD-10-CM
Cutaneous implications	I73.01	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

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Covariate	Code	Description	Code Type
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
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	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

Appendix D. 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	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
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 periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.102A	Unspecified open wound of left eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.109A	Unspecified open wound of unspecified eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.111A	Laceration without foreign body of right eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.112A	Laceration without foreign body of left eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.119A	Laceration without foreign body of unspecified eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.121A	Laceration with foreign body of right eyelid and periorbital area, initial encounter	ICD-10-CM
Cutaneous implications	S01.122A	Laceration with foreign body of left eyelid and periorbital area, initial encounter	ICD-10-CM

Appendix D. 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	S01.129A	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
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

Appendix D. 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	S01.401A	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
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

Appendix D. 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	S01.541A	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
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

Appendix D. 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	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
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	ICD-10-CM

Appendix D. 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	S41.141A	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
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

Appendix D. 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	S51.001A	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
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

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Covariate	Code	Description	Code Type
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
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

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Covariate	Code	Description	Code Type
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
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

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Covariate	Code	Description	Code Type
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

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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

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Covariate	Code	Description	Code Type
Cutaneous implications	S66.822A	Laceration of other specified muscles, fascia and tendons at wrist and hand level, left hand, initial encounter	ICD-10-CM
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	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

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Covariate	Code	Description	Code Type
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
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

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Covariate	Code	Description	Code Type
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
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	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

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Covariate	Code	Description	Code Type
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 pregnancy, first trimester	ICD-10-CM
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

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Covariate	Code	Description	Code Type
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
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

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Covariate	Code	Description	Code Type
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	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
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

Appendix D. 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	I69.111	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
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

Appendix D. 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	I69.813	Psychomotor deficit following other cerebrovascular disease	ICD-10-CM
Neurological implications	I69.814	Frontal lobe and executive function deficit following other cerebrovascular	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	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	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
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

Appendix D. 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	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,	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
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

Appendix D. 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	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
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

Appendix D. 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	249.60	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
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

Appendix D. 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	250.30	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	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,	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,	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
Diabetes	250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type],	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

Appendix D. 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	250.82	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, unspecified as to episode of care	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
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	ICD-10-CM
Diabetes	E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	ICD-10-CM

Appendix D. 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	E08.3	Diabetes mellitus due to underlying condition with ophthalmic complications	ICD-10-CM
Diabetes	E08.31	Diabetes mellitus due to underlying condition with unspecified diabetic	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
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

Appendix D. 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	E08.339	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 D. 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	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

Appendix D. 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	E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
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,	ICD-10-CM
Diabetes	E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	ICD-10-CM

Appendix D. 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	E08.42	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
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	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	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

Appendix D. 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	E09.00	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	ICD-10-CM
Diabetes	E09.3	Drug or chemical induced diabetes mellitus with ophthalmic complications	ICD-10-CM
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

Appendix D. 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	E09.331	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
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

Appendix D. 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	E09.3499	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	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
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	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,	ICD-10-CM
Diabetes	E09.354	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous	ICD-10-CM

Appendix D. 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	E09.3541	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
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

Appendix D. 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	E09.37X9	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
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	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

Appendix D. 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	E09.69	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	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
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

Appendix D. 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	E10.3311	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
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	ICD-10-CM

Appendix D. 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	E10.3511	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
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

Appendix D. 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	E10.3549	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	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
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

Appendix D. 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	E10.51	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
Diabetes	E11.32	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM

Appendix D. 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	E11.321	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

Appendix D. 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	E11.34	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM
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, right eye	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

Appendix D. 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	E11.353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM
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

Appendix D. 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	E11.3599	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	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
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

Appendix D. 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	E11.8	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
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

Appendix D. 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	E13.33	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
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

Appendix D. 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	E13.3499	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
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

Appendix D. 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	E13.3542	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
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

Appendix D. 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	E13.4	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	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
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

Appendix D. 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	O24.119	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	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	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
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

Appendix D. 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	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
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

Appendix D. 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	764.06	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
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

Appendix D. 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	O36.5110	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,	ICD-10-CM
Fetal growth retardation	O36.5112	Maternal care for known or suspected placental insufficiency, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5113	Maternal care for known or suspected placental insufficiency, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5114	Maternal care for known or suspected placental insufficiency, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5115	Maternal care for known or suspected placental insufficiency, first trimester,	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,	ICD-10-CM
Fetal growth retardation	O36.5132	Maternal care for known or suspected placental insufficiency, third trimester,	ICD-10-CM
Fetal growth retardation	O36.5133	Maternal care for known or suspected placental insufficiency, third trimester,	ICD-10-CM
Fetal growth retardation	O36.5134	Maternal care for known or suspected placental insufficiency, third trimester,	ICD-10-CM
Fetal growth retardation	O36.5135	Maternal care for known or suspected placental insufficiency, third trimester,	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

Appendix D. 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	O36.5195	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,	ICD-10-CM
Fetal growth retardation	O36.5912	Maternal care for other known or suspected poor fetal growth, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5913	Maternal care for other known or suspected poor fetal growth, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5914	Maternal care for other known or suspected poor fetal growth, first trimester,	ICD-10-CM
Fetal growth retardation	O36.5915	Maternal care for other known or suspected poor fetal growth, first trimester,	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
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

Appendix D. 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	O36.5991	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
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	ICD-9-CM

Appendix D. 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	642.03	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
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

Appendix D. 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	642.53	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
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	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

Appendix D. 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	O10.112	Pre-existing hypertensive heart disease complicating pregnancy, second	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	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
Preeclampsia	O10.413	Pre-existing secondary hypertension complicating pregnancy, third trimester	ICD-10-CM
Preeclampsia	O10.419	Pre-existing secondary hypertension complicating pregnancy, unspecified	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

Appendix D. 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	O10.913	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
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

Appendix D. 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	O14.23	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 E: Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.4.4, to estimate rates of phosphodiesterase type 5 (PDE5) inhibitor use among women of child-bearing age in the Sentinel Distributed Database (SDD).

Query period: January 1, 2001- March 31, 2018
Coverage requirement: Medical & Drug Coverage
Pre-index enrollment requirement: 90 Days for Scenarios 1-5, 183 Days for Scenarios 6-10
Post-index enrollment requirement: 0 Days for Scenarios 1-5, 90 Days for Scenarios 6-10
Enrollment gap: 30 Days
Age groups: 15-24, 25-34, 35-44, 45-50 years
Sex: Females
Stratifications: Calendar year, age group and calendar year
Freeze data: No
Baseline table: Yes

Scenario	Group	Exposure/Event					Censoring
		Index Exposure/ Event	Cohort definition	Washout period	Incident w/ respect to:	Care setting	
1	PDE5	PDE5 Inhibitors	All valid index dates during query period	0 Days	n/a	Any care setting	*Death; *Data Partner End Date; *Query End Date
2	Sildenafil	Sildenafil	All valid index dates during query period	0 Days	n/a	Any care setting	*Death; *Data Partner End Date; *Query End Date
3	Tadalafil	Tadalafil	All valid index dates during query period	0 Days	n/a	Any care setting	*Death; *Data Partner End Date; *Query End Date
4	Vardenafil	Vardenafil	All valid index dates during query period	0 Days	n/a	Any care setting	*Death; *Data Partner End Date; *Query End Date
5	Avanafil	Avanafil	All valid index dates during query period	0 Days	n/a	Any care setting	*Death; *Data Partner End Date; *Query End Date
6	PDE5_183	PDE5 Inhibitors	All valid index dates during query period	183 Days	PDE5 Inhibitors	Any care setting	*Death; *Data Partner End Date; *Query End Date
7	Sildenafil_183	Sildenafil	All valid index dates during query period	183 Days	PDE5 Inhibitors	Any care setting	*Death; *Data Partner End Date; *Query End Date
8	Tadalafil_183	Tadalafil	All valid index dates during query period	183 Days	PDE5 Inhibitors	Any care setting	*Death; *Data Partner End Date; *Query End Date
9	Vardenafil_183	Vardenafil	All valid index dates during query period	183 Days	PDE5 Inhibitors	Any care setting	*Death; *Data Partner End Date; *Query End Date
10	Avanafil_183	Avanafil	All valid index dates during query period	183 Days	PDE5 Inhibitors	Any care setting	*Death; *Data Partner End Date; *Query End Date

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 F: 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 rates of phosphodiesterase type 5 (PDE5) inhibitor use among women of child-bearing age in the Sentinel Distributed Database (SDD).

Covariates					
Covariate	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	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	90	1
Urogenital implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Cardiovascular implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Pulmonary implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Cutaneous implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Gastrointestinal implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Reproductive implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Neurological implications	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Pulmonary arterial hypertension	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Fetal growth retardation	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Preeclampsia	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Lupus	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
Diabetes	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1
None of the conditions of interest	Any care setting	Only applicable for Inpatient and Institutional stays: Any	-90	90	1