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

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

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

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

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Overview for Request: cder_mpl1r_wp103

Request ID: cder_mpl1r_wp103_nsdp_v01

<u>Request Description:</u> This request estimated use of dolutegravir among women of reproductive age and those with a prior human immunodeficiency virus (HIV) diagnosis in the Sentinel Distributed Database (SDD). This request also examined dolutegravir use during pregnancy among women with live-birth deliveries in the SDD.

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

<u>Data Source:</u> Data from August 1, 2013 to March 31, 2018 were included in the report. This request was distributed to 16 Data Partners contributing to the SDD on August 21, 2018. These 16 Data Partners are a subset of the SDD and do not include patients with Medicare coverage. Please see Appendix A for a list of dates of available data for each Data Partner.

<u>Study Design:</u> This study used a retrospective cohort design describing prevalence of dolutegravir use in women of reproductive age (15-49 years). Dolutegravir dispensings were estimated for all women, women with prior HIV diagnosis, and women with pregnancy episodes. The number of qualifying patients and episodes with the exposure of interest were stratified by study period.

Exposure of Interest: The exposure of interest, dolutegravir, was defined using National Drug Codes (NDC). All valid dispensings of dolutegravir were identified for women of reproductive age, and women of reproductive age with an HIV diagnosis; cohort reentry was allowed. For women with pregnancy episodes ending in a live-birth delivery, all valid episodes were identified during pregnancy and in the 180 days prior to pregnancy start. See Appendix B for a list of generic and brand drug names used to define exposures in this request.

Cohort Eligibility Criteria for Women of Reproductive Age: Women ages 15-49 years were included in both the all women of reproductive age cohort and women of reproductive age with a previous HIV diagnosis cohort. Those included in the cohorts were required to be continuously enrolled in plans with medical and drug coverage for at least 180 days prior to their index dispensing date, during which gaps in coverage of up to 45 days were allowed. To be included in the cohort of women of reproductive age with an HIV diagnosis, women were required to have at least one HIV diagnosis in the inpatient care setting or at least two HIV diagnoses in the outpatient care setting in the 180 days prior to their index dispensing date. See Appendix C 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, and Current Procedural Terminology (CPT) procedure codes used to define inclusion criteria in this request.

<u>Cohort Eligibility Criteria for Women with a Pregnancy Episode:</u> Women ages 15-49 years were included in the cohort. Those included in the cohort were required to be continuously enrolled in plans with medical and drug coverage for at least 481 days before their delivery date, during which gaps in coverage of up to 45 days were allowed.

Pregnancy Episode Creation: A claims-based algorithm previously validated in the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP) was used to identify pregnancies ending in a live birth¹. This algorithm used ICD-10-CM diagnosis codes indicative of weeks of gestation, and ICD-9-CM and ICD-10-CM diagnosis codes for pre-term and post-term deliveries, to calculate the length of the pregnancy episode. Codes needed to occur within seven days of a delivery date in the inpatient care setting. In absence of pre-/post-term codes, pregnancy duration was set to 273 days. Pregnancies were excluded from the cohort if there was evidence of a prior delivery in the 301 days before the delivery date of interest. Please see Appendix D for more details about this algorithm and for a list of codes used to define gestational age. Please see Appendix E for a list of CPT, ICD-9-CM and ICD-10-CM diagnosis and procedure codes used to define live-born delivery in this request.



Overview for Request: cder_mpl1r_wp103, continued

<u>Exposure Assessment Windows during Pregnancy Episodes:</u> Use of dolutegravir was assessed during the following time periods during pregnancy:

- -- Exposed at the Last Menstrual Period (LMP) and continuing into pregnancy;
- -- Exposed in the first month of pregnancy* and not in the pre-pregnancy period;
- -- Exposed at the LMP or first exposed in the first month or pregnancy*;
- -- Exposed after the first month from the LMP;
- -- Exposed after the first month from the LMP and not in the first month of pregnancy*;
- -- Exposed during the first trimester;
- -- Exposed during the first trimester only;
- -- Exposed during the second or third trimesters;
- -- Exposed during the second trimester only;
- -- Exposed during the third trimester only;
- -- Exposed anytime during pregnancy

Please see Appendices F and G for the specifications of parameters used in the analyses for this request.

<u>Limitations:</u> Algorithms used to define pregnancy start and exposure use are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

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

Andrade, S. E., et al. (2012). "Medication Exposure in Pregnancy Risk Evaluation Program." Matern Child Health J 16(7):1349-1354.

^{*}The first month of pregnancy was defined as the 30 days starting from the LMP.



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

Any Use During Pregnancy - pregnancy episodes with product use during any trimester.

Any Use, First Trimester - pregnancy episodes with product use during the 1st trimester. The 1st trimester is 0-90 days following pregnancy start.

Any Use, Second Trimester - pregnancy episodes with product use during the 2nd trimester. The 2nd trimester is 91-180 days following pregnancy start.

Any Use, Third Trimester - pregnancy episodes with product use during the 3rd trimester. The 3rd trimester is 180+ days following pregnancy start until delivery.

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.

Coverage requirement - indicates medical and/or drug coverage type requirements for the cohort.

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

Delivery washout period - number of days before a delivery during which an individual cannot have evidence of a prior delivery.

Drug Episodes in the 90 Days Before Pregnancy - number of medical product use episodes in 90-days before pregnancy.

Drug Episodes During Pregnancy - number of medical product use episodes in any trimester.

Drug Episodes, First Trimester - number of medical product use episodes in the 1st trimester.

Drug Episodes, Second Trimester - number of medical product use episodes in the 2nd trimester.

Drug Episodes, Third Trimester - number of medical product use episodes in the 3rd trimester.

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.

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

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

Exposure - defines the medical product(s) of interest. Medical product use is characterized 90 days prior to the start of pregnancy and during each trimester.



Exposure Washout - number of days before the start of medical product episode during which an individual cannot have evidence of a prior episode.

Minimum pre-delivery enrollment - number of days of continuous enrollment in the requester-defined coverage type required before the delivery date.

Pre/Post-Term Evaluation Window - number of days around the delivery date where preterm/postterm codes to calculate the length of the pregnancy episode are assessed.

Pregnancy Duration in Absence of Pre/PostTerm Codes - number of days for pregnancy episode length in the absence of preterm/postterm codes.

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.

Use in the 90 Days Before Pregnancy - pregnancy episodes with product use 90-days before pregnancy start.

Users - number of members with exposure during the query period. Member must have no evidence of exposure(s) of interest (defined by incidence criteria) in the prior washout period. A user may only be counted once in a query period.



Table 1. Summary of Dolutegravir Use among Women of Reproductive Age in the Sentinel Distributed Database (SDD) from August 1, 2013 to March 31, 2018, by Study Period

		Women with a Dolutegravir Dispensing	Eligible Women ¹	Women with a Dolutegravir Dispensing per 1,000 Eligible Women 1
All Women				
	August 1, 2013 - July 31, 2014	248	13,088,140	0.02
Ctudy Daried of	August 1, 2014 - July 31, 2015	792	13,318,029	0.06
Study Period of Exposure	August 1, 2015 - July 31, 2016	1,702	13,867,726	0.12
	August 1, 2016 - July 31, 2017	2,263	14,058,488	0.16
	August 1, 2017 - March 31, 2018	1,050	7,131,771	0.15
Women with a Hu	man Immunodeficiency Virus (HIV) Dia	agnosis		
	August 1, 2013 - July 31, 2014	229	7,530	30.41
Chudu Daviad af	August 1, 2014 - July 31, 2015	671	8,065	83.20
Study Period of	August 1, 2015 - July 31, 2016	1,345	8,272	162.60
Exposure	August 1, 2016 - July 31, 2017	1,672	7,920	211.11
	August 1, 2017 - March 31, 2018	719	3,370	213.35

¹Eligible women includes women who met the enrollment, age, and inclusion criteria for at least one day during the study period



Table 2. Summary of Women with a Live-Birth Delivery and Pregnancy Episodes¹ in the Sentinel Distributed Database (SDD) from August 1, 2013 to March 31, 2018, by Study Period

Study Period of Exposure	Women with a Live-Birth Delivery	Pregnancy Episodes
August 1, 2013 - July 31, 2014	267,943	268,001
August 1, 2014 - July 31, 2015	274,631	274,707
August 1, 2015 - July 31, 2016	289,311	289,409
August 1, 2016 - July 31, 2017	264,181	264,212
August 1, 2017 - March 31, 2018	77,227	77,227

¹Delivery date was required to occur during the study period



Table 3. Summary of Dolutegravir Use among Women with a Live-Birth Delivery in the Sentinel Distributed Database (SDD) from August 1, 2013 to March 31, 2018, by Study Period and Exposure Assessment Window

					Study Period	l of Exposure				
	•)13 - July 31, 14	-)14 - July 31, 15	•)15 - July 31, 16)16 - July 31,	August 1, 201 20	l .7 - March 31, 18
Summary										
Pregnancy Episodes	268	,001	274	,707	289	,409	264	,212	77,:	227
Patient Characteristics										
Mean Age ² (Standard Deviation)	30.9	(5.4)	30.9	(5.4)	30.9	(5.4)	31.3	(5.3)	31.6	(5.3)
Dolutegravir Use:	Number of Episodes	Per 10,000 Pregnancy Episodes								
Exposed at LMP ³ and continuing into pregnancy	0	0.00	1	0.04	6	0.21	7	0.26	4	0.52
Exposed in first month of pregnancy and not in the prepregnancy period	0	0.00	0	0.00	0	0.00	1	0.04	0	0.00
Exposed at LMP ³ or first exposed in the first month of pregnancy	0	0.00	1	0.04	7	0.24	9	0.34	4	0.52
Exposed after the first month from LMP ^{3,4}	1	0.04	8	0.29	14	0.48	12	0.45	7	0.91
Exposed after the first month from LMP ^{3,4} and not in the first month of pregnancy	1	0.04	7	0.25	7	0.24	3	0.11	3	0.39



Table 3. Summary of Dolutegravir Use among Women with a Live-Birth Delivery in the Sentinel Distributed Database (SDD) from August 1, 2013 to March 31, 2018, by Study Period and Exposure Assessment Window

					Study Period	l of Exposure				
	=)13 - July 31, 14	August 1, 20)14 - July 31, 15	_	015 - July 31, 016	_	016 - July 31, 017	=	I .7 - March 31, 18
Dolutegravir Use:	Number of Episodes	Per 10,000 Pregnancy Episodes								
Exposed in the first trimester	0	0.00	2	0.07	9	0.31	9	0.34	5	0.65
Exposed in the first trimester only	0	0.00	0	0.00	2	0.07	1	0.04	1	0.13
Exposed in the second or third trimesters	1	0.04	5	0.18	12	0.41	11	0.42	5	0.65
Exposed in the second trimester only	0	0.00	0	0.00	0	0.00	1	0.04	0	0.00
Exposed in the third trimester only	0	0.00	1	0.04	3	0.10	0	0.00	1	0.13
Exposed anytime during pregnancy	1	0.04	5	0.18	14	0.48	12	0.45	6	0.78

¹Delivery date was required to occur during the study period

²Age is assessed relative to the delivery date

³LMP = Last Menstrual Period

⁴Counts for "Exposure after the first month from LMP" could be overestimated compared to "Exposed anytime during pregnancy" since the 30-301 days evaluation period that was used could be longer than the estimated pregnancy duration.



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (August 21, 2018)

DP ID	DP Start Date	DP End Date
DP01	01/01/2000	10/31/2017
DP02	01/01/2000	03/31/2018
DP03	01/01/2004	01/31/2018
DP04	01/01/2008	11/30/2017
DP05	01/01/2000	06/30/2017
DP06	01/01/2006	12/31/2017
DP07	01/01/2000	12/31/2017
DP08	06/01/2007	10/31/2017
DP09	01/01/2000	03/31/2016
DP10	01/01/2005	09/30/2017
DP11	01/01/2000	08/31/2017
DP12	01/01/2000	01/31/2017
DP13	01/01/2008	06/30/2017
DP14	01/01/2000	05/31/2015
DP15	01/01/2012	06/30/2017
DP16	01/01/2000	12/31/2016

¹The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.



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

Generic Name	Brand Name
abacavir sulfate/dolutegravir sodium/lamivudine	Triumeq
dolutegravir sodium	Tivicay
dolutegravir sodium/rilpivirine HCl	Juluca



Appendix C. 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 and Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes Used to Define Inclusion Criteria in this Request

Code	Description	Code Type	Code Category
042	Human immunodeficiency virus [HIV]	ICD-9-CM	Diagnosis
079.53	Human immunodeficiency virus, type 2 (HIV 2), in conditions classified elsewhere and of unspecified site	ICD-9-CM	Diagnosis
795.71	Nonspecific serologic evidence of human immunodeficiency virus (HIV)	ICD-9-CM	Diagnosis
V08	Asymptomatic human immunodeficiency virus (hiv) infection status	ICD-9-CM	Diagnosis
3490F	History of AIDS-defining condition (HIV)	CPT-4	Procedure
B20	Human immunodeficiency virus [HIV] disease	ICD-10-CM	Diagnosis
B97.35	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere	ICD-10-CM	Diagnosis
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	ICD-10-CM	Diagnosis



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 the Gestational Age Algorithm in this Request

Code	Code Type	Duration (Days)	Description	Priority Group 1	Priority Group 2	Priority
Courc	coue : ype	(Days)		G.oup 1	0.0up =	·······································
048.1	ICD-10-CM	294	Prolonged pregnancy	0	1	1
P08.22	ICD-10-CM	294	Prolonged gestation of newborn	0	1	1
Z3A.49	ICD-10-CM	301	Greater than 42 weeks gestation of pregnancy	1	0	1
048.0	ICD-10-CM	287	Post-term pregnancy	0	1	2
P08.21	ICD-10-CM	287	Post-term newborn	0	1	2
Z3A.42	ICD-10-CM	298	42 weeks gestation of pregnancy	1	0	2
Z3A.41	ICD-10-CM	291	41 weeks gestation of pregnancy	1	0	3
Z3A.40	ICD-10-CM	284	40 weeks gestation of pregnancy	1	0	4
Z3A.39	ICD-10-CM	277	39 weeks gestation of pregnancy	1	0	5
Z3A.38	ICD-10-CM	270	38 weeks gestation of pregnancy	1	0	6
Z3A.37	ICD-10-CM	263	37 weeks gestation of pregnancy	1	0	7
P07.39	ICD-10-CM	256	Preterm newborn, gestational age 36 completed weeks	1	0	8
Z3A.36	ICD-10-CM	256	36 weeks gestation of pregnancy	1	0	8
P07.38	ICD-10-CM	249	Preterm newborn, gestational age 35 completed weeks	1	0	9
Z3A.35	ICD-10-CM	249	35 weeks gestation of pregnancy	1	0	9
P07.37	ICD-10-CM	242	Preterm newborn, gestational age 34 completed weeks	1	0	10
Z3A.34	ICD-10-CM	242	34 weeks gestation of pregnancy	1	0	10
P07.36	ICD-10-CM	235	Preterm newborn, gestational age 33 completed weeks	1	0	11
Z3A.33	ICD-10-CM	235	33 weeks gestation of pregnancy	1	0	11
P07.35	ICD-10-CM	228	Preterm newborn, gestational age 32 completed weeks	1	0	12
Z3A.32	ICD-10-CM	228	32 weeks gestation of pregnancy	1	0	12
P07.34	ICD-10-CM	221	Preterm newborn, gestational age 31 completed weeks	1	0	13
Z3A.31	ICD-10-CM	221	31 weeks gestation of pregnancy	1	0	13
P07.33	ICD-10-CM	214	Preterm newborn, gestational age 30 completed weeks	1	0	14
Z3A.30	ICD-10-CM	214	30 weeks gestation of pregnancy	1	0	14
P07.32	ICD-10-CM	207	Preterm newborn, gestational age 29 completed weeks	1	0	15
Z3A.29	ICD-10-CM	207	29 weeks gestation of pregnancy	1	0	15
P07.31	ICD-10-CM	200	Preterm newborn, gestational age 28 completed weeks	1	0	16
Z3A.28	ICD-10-CM	200	28 weeks gestation of pregnancy	1	0	16
P07.26	ICD-10-CM	193	Extreme immaturity of newborn, gestational age 27 completed weeks	1	0	17
Z3A.27	ICD-10-CM	193	27 weeks gestation of pregnancy	1	0	17
P07.25	ICD-10-CM	186	Extreme immaturity of newborn, gestational age 26 completed weeks	1	0	18
Z3A.26	ICD-10-CM	186	26 weeks gestation of pregnancy	1	0	18
P07.24	ICD-10-CM	179	Extreme immaturity of newborn, gestational age 25 completed weeks	1	0	19
Z3A.25	ICD-10-CM	179	25 weeks gestation of pregnancy	1	0	19



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 the Gestational Age Algorithm in this Request

Code	Code Type	Duration (Days)	Description	Priority Group 1	Priority Group 2	Priority
	-			•		•
P07.23	ICD-10-CM	172	Extreme immaturity of newborn, gestational age 24 completed weeks	1	0	20
Z3A.24	ICD-10-CM	172	24 weeks gestation of pregnancy	1	0	20
P07.22	ICD-10-CM	165	Extreme immaturity of newborn, gestational age 23 completed weeks	1	0	21
Z3A.23	ICD-10-CM	165	23 weeks gestation of pregnancy	1	0	21
P07.21	ICD-10-CM	158	Extreme immaturity of newborn, gestational age less than 23 completed weeks	1	0	22
Z3A.22	ICD-10-CM	158	22 weeks gestation of pregnancy	1	0	22
Z3A.21	ICD-10-CM	151	21 weeks gestation of pregnancy	1	0	23
Z3A.20	ICD-10-CM	144	20 weeks gestation of pregnancy	1	0	24
P07.20	ICD-10-CM	196	Extreme immaturity of newborn, unspecified weeks of gestation	1	0	25
O60.13X0	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X1	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X2	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X3	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X4	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X5	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.13X9	ICD-10-CM	245	Preterm labor second trimester with preterm delivery third trimester	1	0	26
O60.14X0	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X1	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X2	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X3	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X4	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26
O60.14X5	ICD-10-CM	245	Preterm labor third trimester with preterm delivery third trimester	1	0	26



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 the Gestational Age Algorithm in this Request

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



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 the Gestational Age Algorithm in this Request

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

If multiple codes for specific weeks of gestation (Z codes), preterm delivery, and/or postterm delivery are available, the ICD-10 algorithm for gestational age prioritizes the following codes:

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

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



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



			Code
Code	Description	Code Type	Category
642.12	Hypertension secondary to renal disease, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.21	Other pre-existing hypertension, with delivery	ICD-9-CM	Diagnosis
642.22	Other pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.31	Transient hypertension of pregnancy, with delivery	ICD-9-CM	Diagnosis
642.32	Transient hypertension of pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.41	Mild or unspecified pre-eclampsia, with delivery	ICD-9-CM	Diagnosis
642.42	Mild or unspecified pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.51	Severe pre-eclampsia, with delivery	ICD-9-CM	Diagnosis
642.52	Severe pre-eclampsia, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.61	Eclampsia, with delivery	ICD-9-CM	Diagnosis
642.62	Eclampsia, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	ICD-9-CM	Diagnosis
642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
642.91	Unspecified hypertension, with delivery	ICD-9-CM	Diagnosis
642.92	Unspecified hypertension, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
643.01	Mild hyperemesis gravidarum, delivered	ICD-9-CM	Diagnosis
643.11	Hyperemesis gravidarum with metabolic disturbance, delivered	ICD-9-CM	Diagnosis
643.21	Late vomiting of pregnancy, delivered	ICD-9-CM	Diagnosis
643.81	Other vomiting complicating pregnancy, delivered	ICD-9-CM	Diagnosis
643.91	Unspecified vomiting of pregnancy, delivered	ICD-9-CM	Diagnosis
644.21	Early onset of delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645.01	Prolonged pregnancy, with delivery	ICD-9-CM	Diagnosis
645.11	Post term pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645.21	Prolonged pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
645.22		ICD-9-CM	Diagnosis
646.01	Papyraceous fetus, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
646.11	Edema or excessive weight gain in pregnancy, with delivery, with or without mention of antepartum complication	ICD-9-CM	Diagnosis
646.12	Edema or excessive weight gain in pregnancy, with delivery, with current postpartum complication	ICD-9-CM	Diagnosis
646.21	Unspecified renal disease in pregnancy, with delivery	ICD-9-CM	Diagnosis



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



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



Code	Description	Code Type	Code Category
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.31	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.32	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.61	Uterine size date discrepancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.62	Uterine size date discrepancy, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
649.71	Cervical shortening, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.81	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
649.82	Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
651.01	Twin pregnancy, delivered	ICD-9-CM	Diagnosis
651.11	Triplet pregnancy, delivered	ICD-9-CM	Diagnosis
651.21	Quadruplet pregnancy, delivered	ICD-9-CM	Diagnosis
651.31	Twin pregnancy with fetal loss and retention of one fetus, delivered	ICD-9-CM	Diagnosis
651.41	Triplet pregnancy with fetal loss and retention of one or more, delivered	ICD-9-CM	Diagnosis
651.51	Quadruplet pregnancy with fetal loss and retention of one or more, delivered	ICD-9-CM	Diagnosis
651.61	Other multiple pregnancy with fetal loss and retention of one or more fetus(es), delivered	ICD-9-CM	Diagnosis
651.71	Multiple gestation following (elective) fetal reduction, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
651.81	Other specified multiple gestation, delivered	ICD-9-CM	Diagnosis
651.91	Unspecified multiple gestation, delivered	ICD-9-CM	Diagnosis
652.01	Unstable lie of fetus, delivered	ICD-9-CM	Diagnosis
652.11	Breech or other malpresentation successfully converted to cephalic presentation, delivered	ICD-9-CM	Diagnosis
652.21	Breech presentation without mention of version, delivered	ICD-9-CM	Diagnosis
652.31	Transverse or oblique fetal presentation, delivered	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
652.41	Fetal face or brow presentation, delivered	ICD-9-CM	Diagnosis
652.51	High fetal head at term, delivered	ICD-9-CM	Diagnosis
652.61	Multiple gestation with malpresentation of one fetus or more, delivered	ICD-9-CM	Diagnosis
652.71	Prolapsed arm of fetus, delivered	ICD-9-CM	Diagnosis
652.81	Other specified malposition or malpresentation of fetus, delivered	ICD-9-CM	Diagnosis
652.91	Unspecified malposition or malpresentation of fetus, delivered	ICD-9-CM	Diagnosis
653.01	Major abnormality of bony pelvis, not further specified, delivered	ICD-9-CM	Diagnosis
653.11	Generally contracted pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.21	Inlet contraction of pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.31	Outlet contraction of pelvis in pregnancy, delivered	ICD-9-CM	Diagnosis
653.41	Fetopelvic disproportion, delivered	ICD-9-CM	Diagnosis
653.51	Unusually large fetus causing disproportion, delivered	ICD-9-CM	Diagnosis
653.61	Hydrocephalic fetus causing disproportion, delivered	ICD-9-CM	Diagnosis
653.71	Other fetal abnormality causing disproportion, delivered	ICD-9-CM	Diagnosis
653.81	Fetal disproportion of other origin, delivered	ICD-9-CM	Diagnosis
653.91	Unspecified fetal disproportion, delivered	ICD-9-CM	Diagnosis
654.01	Congenital abnormalities of pregnant uterus, delivered	ICD-9-CM	Diagnosis
654.02	Congenital abnormalities of pregnant uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.11	Tumors of body of uterus, delivered	ICD-9-CM	Diagnosis
654.12	Tumors of body of uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.21	Previous cesarean delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
654.31	Retroverted and incarcerated gravid uterus, delivered	ICD-9-CM	Diagnosis
654.32	Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.41	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered	ICD-9-CM	Diagnosis
654.42	Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.51	Cervical incompetence, delivered	ICD-9-CM	Diagnosis
654.52	Cervical incompetence, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.61	Other congenital or acquired abnormality of cervix, with delivery	ICD-9-CM	Diagnosis
654.62	Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.71	Congenital or acquired abnormality of vagina, with delivery	ICD-9-CM	Diagnosis
654.72	Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.81	Congenital or acquired abnormality of vulva, with delivery	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
654.82	Congenital or acquired abnormality of vulva, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
654.91	Other and unspecified abnormality of organs and soft tissues of pelvis, with delivery	ICD-9-CM	Diagnosis
654.92	Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
655.01	Central nervous system malformation in fetus, with delivery	ICD-9-CM	Diagnosis
655.11	Chromosomal abnormality in fetus, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.21	Hereditary disease in family possibly affecting fetus, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.31	Suspected damage to fetus from viral disease in mother, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.41	Suspected damage to fetus from other disease in mother, affecting management of mother, with delivery	ICD-9-CM	Diagnosis
655.51	Suspected damage to fetus from drugs, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.61	Suspected damage to fetus from radiation, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.71	Decreased fetal movements, affecting management of mother, delivered	ICD-9-CM	Diagnosis
655.81	Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivery	ICD-9-CM	Diagnosis
655.91	Unspecified fetal abnormality affecting management of mother, delivery	ICD-9-CM	Diagnosis
656.01	Fetal-maternal hemorrhage, with delivery	ICD-9-CM	Diagnosis
656.11	Rhesus isoimmunization affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.21	Isoimmunization from other and unspecified blood-group incompatibility, affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.31	Fetal distress affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.41	Intrauterine death affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.51	Poor fetal growth, affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.61	Excessive fetal growth affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.71	Other placental conditions affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.81	Other specified fetal and placental problems affecting management of mother, delivered	ICD-9-CM	Diagnosis
656.91	Unspecified fetal and placental problem affecting management of mother, delivered	ICD-9-CM	Diagnosis
657.01	Polyhydramnios, with delivery	ICD-9-CM	Diagnosis
658.01	Oligohydramnios, delivered	ICD-9-CM	Diagnosis
658.11	Premature rupture of membranes in pregnancy, delivered	ICD-9-CM	Diagnosis



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



662.31 Delayed delivery of second twin, triplet, etc., delivered ICD-9-CM Diagnosis 663.01 Prolapse of cord, complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.11 Cord around neck, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.11 Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis delivery, delivered ICD-9-CM Diagnosis labor and delivery, delivered ICD-9-CM Diagnosis labor and delivery, delivered ICD-9-CM Diagnosis labor and delivery, delivered ICD-9-CM Diagnosis IcD-9-CM Dia	Code	Description	Code Type	Code Category
663.01 Prolapse of cord, complicating labor and delivery, delivered ICD-9-CM Diagnosis Diagnosis Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis Diagnosis Diagnosis delivery, delivered 663.21 Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis Diagn				
663.11 Cord around neck, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.21 Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.31 Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.41 Short cord complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.51 Vascular lesions of cord complicating labor and delivery, delivered ICD-9-CM Diagnosis 663.81 Other umbilical cord complication during labor and delivery, delivered ICD-9-CM Diagnosis 663.91 Unspecified umbilical cord complication during labor and delivery, delivered ICD-9-CM Diagnosis 664.01 First-degree perineal laceration, with delivery ICD-9-CM Diagnosis 664.11 Second-degree perineal laceration, with delivery ICD-9-CM Diagnosis 664.21 Third-degree perineal laceration, with delivery ICD-9-CM Diagnosis 664.31 Vulvar and perineal hematoms, with delivery ICD-9-CM Diagnosis 664.51	662.31	Delayed delivery of second twin, triplet, etc., delivered	ICD-9-CM	Diagnosis
663.21 Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered labor and delivery, delivered ICD-9-CM Diagnosis labor and delivery, delivered 663.31 Short cord complicating labor and delivery, delivered ICD-9-CM Diagnosis labor and delivery, delivered	663.01	Prolapse of cord, complicating labor and delivery, delivered	ICD-9-CM	Diagnosis
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Delayed and secondary postpartum hemorrhage, with delivery ICD-9-CM Diagnosis				
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Code	Description	Code Type	Code Category
667.02	Retained placenta without hemorrhage, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
667.1.2	Retained portions of placenta or membranes, without hemorrhage, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.01	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.02	Pulmonary complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.11	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.12	Cardiac complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.21	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.22	Central nervous system complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.81	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.82	Other complications of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
668.91	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered	ICD-9-CM	Diagnosis
668.92	Unspecified complication of the administration of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.01	Maternal distress, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.02	Maternal distress, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.11	Shock during or following labor and delivery, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.12	Shock during or following labor and delivery, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.21	Maternal hypotension syndrome, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.22	Maternal hypotension syndrome, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.32	Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.41	Other complications of obstetrical surgery and procedures, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
669.42	Other complications of obstetrical surgery and procedures, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.51	Forceps or vacuum extractor delivery without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.61	Breech extraction, without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.71	Cesarean delivery, without mention of indication, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.81	Other complication of labor and delivery, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.82	Other complication of labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
669.91	Unspecified complication of labor and delivery, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
669.92	Unspecified complication of labor and delivery, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.02	Major puerperal infection, unspecified, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.12	Puerperal endometritis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.22	Puerperal sepsis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.32	Puerperal septic thrombophlebitis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
670.82	Other major puerperal infection, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.01	Varicose veins of legs, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.02	Varicose veins of legs, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.11	Varicose veins of vulva and perineum, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.12	Varicose veins of vulva and perineum, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.21	Superficial thrombophlebitis with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.22	Superficial thrombophlebitis with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.31	Deep phlebothrombosis, antepartum, with delivery	ICD-9-CM	Diagnosis
671.42	Deep phlebothrombosis, postpartum, with delivery	ICD-9-CM	Diagnosis
671.51	Other phlebitis and thrombosis with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
671.52	Other phlebitis and thrombosis with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.81	Other venous complication, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.82	Other venous complication, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
671.91	Unspecified venous complication, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
671.92	Unspecified venous complication, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
672.02	Puerperal pyrexia of unknown origin, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.01	Obstetrical air embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.02	Obstetrical air embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.11	Amniotic fluid embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.12	Amniotic fluid embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.21	Obstetrical blood-clot embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.22	Obstetrical blood-clot embolism, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.31	Obstetrical pyemic and septic embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.32	Obstetrical pyemic and septic embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
673.81	Other obstetrical pulmonary embolism, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
673.82	Other obstetrical pulmonary embolism, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.01	Cerebrovascular disorder, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
674.02	Cerebrovascular disorder, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.12	Disruption of cesarean wound, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.22	Disruption of perineal wound, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.32	Other complication of obstetrical surgical wounds, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.42	Placental polyp, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
674.51	Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
674.52	Peripartum cardiomyopathy, delivered, with mention of postpartum condition	ICD-9-CM	Diagnosis
674.82	Other complication of puerperium, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
674.92	Unspecified complications of puerperium, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.01	Infection of nipple associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.02	Infection of nipple associated with childbirth, delivered with mention of postpartum complication	ICD-9-CM	Diagnosis
675.11	Abscess of breast associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.12	Abscess of breast associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.21	Nonpurulent mastitis, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.22	Nonpurulent mastitis, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.81	Other specified infection of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.82	Other specified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
675.91	Unspecified infection of the breast and nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
675.92	Unspecified infection of the breast and nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.01	Retracted nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.02	Retracted nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.11	Cracked nipple, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.12	Cracked nipple, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.21	Engorgement of breasts, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.22	Engorgement of breasts, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.31	Other and unspecified disorder of breast associated with childbirth, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.32	Other and unspecified disorder of breast associated with childbirth, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.41	Failure of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.42	Failure of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis



	Description	Codo Turo	Code
Code	Description	Code Type	Category
676.51	Suppressed lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.52	Suppressed lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.61	Galactorrhea, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.62	Galactorrhea, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.81	Other disorder of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
676.82	Other disorder of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
676.91	Unspecified disorder of lactation, with delivery, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
72	Forceps, vacuum, and breech delivery	ICD-9-CM	Procedure
73	Other procedures inducing or assisting delivery	ICD-9-CM	Procedure
720	Low forceps operation	ICD-9-CM	Procedure
721	Low forceps operation with episiotomy	ICD-9-CM	Procedure
722	Mid forceps operation	ICD-9-CM	Procedure
723	High forceps operation	ICD-9-CM	Procedure
724	Forceps rotation of fetal head	ICD-9-CM	Procedure
725	Breech extraction	ICD-9-CM	Procedure
726	Forceps application to aftercoming head	ICD-9-CM	Procedure
727	Vacuum extraction	ICD-9-CM	Procedure
728	Other specified instrumental delivery	ICD-9-CM	Procedure
729	Unspecified instrumental delivery	ICD-9-CM	Procedure
730	Artificial rupture of membranes	ICD-9-CM	Procedure
731	Other surgical induction of labor	ICD-9-CM	Procedure
732	Internal and combined version and extraction	ICD-9-CM	Procedure
733	Failed forceps	ICD-9-CM	Procedure
734	Medical induction of labor	ICD-9-CM	Procedure
735	Manually assisted delivery	ICD-9-CM	Procedure
736	Episiotomy	ICD-9-CM	Procedure
738	Operations on fetus to facilitate delivery	ICD-9-CM	Procedure
739	Other operations assisting delivery	ICD-9-CM	Procedure
740	Classical cesarean section	ICD-9-CM	Procedure
741	Low cervical cesarean section	ICD-9-CM	Procedure
742	Extraperitoneal cesarean section	ICD-9-CM	Procedure
744	Cesarean section of other specified type	ICD-9-CM	Procedure
749	Cesarean section of unspecified type	ICD-9-CM	Procedure
722.1	Mid forceps operation with episiotomy	ICD-9-CM	Procedure
722.9	Other mid forceps operation	ICD-9-CM	Procedure



Code	Description	Code Type	Code Category
723.1	High forceps operation with episiotomy	ICD-9-CM	Procedure
723.9	Other high forceps operation	ICD-9-CM	Procedure
725.1	Partial breech extraction with forceps to aftercoming head	ICD-9-CM	Procedure
725.2	Other partial breech extraction	ICD-9-CM	Procedure
725.3	Total breech extraction with forceps to aftercoming head	ICD-9-CM	Procedure
725.4	Other total breech extraction	ICD-9-CM	Procedure
727.1	Vacuum extraction with episiotomy	ICD-9-CM	Procedure
727.9	Other vacuum extraction	ICD-9-CM	Procedure
730.1	Induction of labor by artificial rupture of membranes	ICD-9-CM	Procedure
730.9	Other artificial rupture of membranes	ICD-9-CM	Procedure
732.1	Internal and combined version without extraction	ICD-9-CM	Procedure
732.2	Internal and combined version with extraction	ICD-9-CM	Procedure
735.1	Manual rotation of fetal head	ICD-9-CM	Procedure
735.9	Other manually assisted delivery	ICD-9-CM	Procedure
739.1	External version to assist delivery	ICD-9-CM	Procedure
739.2	Replacement of prolapsed umbilical cord	ICD-9-CM	Procedure
739.3	Incision of cervix to assist delivery	ICD-9-CM	Procedure
739.4	Pubiotomy to assist delivery	ICD-9-CM	Procedure
739.9	Other operations to assist delivery	ICD-9-CM	Procedure
749.9	Other cesarean section of unspecified type	ICD-9-CM	Procedure
676.92	Unspecified disorder of lactation, with delivery, with mention of postpartum complication	ICD-9-CM	Diagnosis
678.01	Fetal hematologic conditions, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
678.11	Fetal conjoined twins, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
679.01	Maternal complications from in utero procedure, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
679.02	Maternal complications from in utero procedure, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
679.11	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis
679.12	Fetal complications from in utero procedure, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis
V27	Outcome of delivery	ICD-9-CM	Diagnosis
V27.0	Outcome of delivery, single liveborn	ICD-9-CM	Diagnosis
V27.1	Outcome of delivery, single stillborn	ICD-9-CM	Diagnosis
V27.2	Outcome of delivery, twins, both liveborn	ICD-9-CM	Diagnosis
V27.3	Outcome of delivery, twins, one liveborn and one stillborn	ICD-9-CM	Diagnosis
V27.4	Outcome of delivery, twins, both stillborn	ICD-9-CM	Diagnosis



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



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



Codo	Description	Code Type	Code Category
Code	Description	coue Type	Category
V39.01	Liveborn infant, unspecified whether single, twin, or multiple, born in hospital, delivered by cesarean	ICD-9-CM	Diagnosis
V39.1	Liveborn, unspecified whether single, twin or multiple, born before admission to hospital	ICD-9-CM	Diagnosis
V39.2	Liveborn, unspecified whether single, twin or multiple, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis
O10.02	Pre-existing essential hypertension complicating childbirth	ICD-10-CM	Diagnosis
010.12	Pre-existing hypertensive heart disease complicating childbirth	ICD-10-CM	Diagnosis
010.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	ICD-10-CM	Diagnosis
010.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	ICD-10-CM	Diagnosis
010.42	Pre-existing secondary hypertension complicating childbirth	ICD-10-CM	Diagnosis
010.92	Unspecified pre-existing hypertension complicating childbirth	ICD-10-CM	Diagnosis
011.4	Pre-existing hypertension with pre-eclampsia, complicating childbirth	ICD-10-CM	Diagnosis
012.04	Gestational edema, complicating childbirth	ICD-10-CM	Diagnosis
012.14	Gestational proteinuria, complicating childbirth	ICD-10-CM	Diagnosis
012.24	Gestational edema with proteinuria, complicating childbirth	ICD-10-CM	Diagnosis
013.4	Gestational [pregnancy-induced] hypertension without significant proteinuria, complicating childbirth	ICD-10-CM	Diagnosis
014.04	Mild to moderate pre-eclampsia, complicating childbirth	ICD-10-CM	Diagnosis
014.14	Severe pre-eclampsia complicating childbirth	ICD-10-CM	Diagnosis
014.24	HELLP syndrome, complicating childbirth	ICD-10-CM	Diagnosis
014.94	Unspecified pre-eclampsia, complicating childbirth	ICD-10-CM	Diagnosis
016.4	Unspecified maternal hypertension, complicating childbirth	ICD-10-CM	Diagnosis
024.02	Pre-existing type 1 diabetes mellitus, in childbirth	ICD-10-CM	Diagnosis
024.12	Pre-existing type 2 diabetes mellitus, in childbirth	ICD-10-CM	Diagnosis
024.32	Unspecified pre-existing diabetes mellitus in childbirth	ICD-10-CM	Diagnosis
024.420	Gestational diabetes mellitus in childbirth, diet controlled	ICD-10-CM	Diagnosis
024.424	Gestational diabetes mellitus in childbirth, insulin controlled	ICD-10-CM	Diagnosis
024.425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	ICD-10-CM	Diagnosis
024.429	Gestational diabetes mellitus in childbirth, unspecified control	ICD-10-CM	Diagnosis
024.82	Other pre-existing diabetes mellitus in childbirth	ICD-10-CM	Diagnosis
024.92	Unspecified diabetes mellitus in childbirth	ICD-10-CM	Diagnosis
025.2	Malnutrition in childbirth	ICD-10-CM	Diagnosis
026.62	Liver and biliary tract disorders in childbirth	ICD-10-CM	Diagnosis
026.72	Subluxation of symphysis (pubis) in childbirth	ICD-10-CM	Diagnosis
O60.12X0	Preterm labor second trimester with preterm delivery second trimester, not applicable or unspecified	ICD-10-CM	Diagnosis
O60.12X1	Preterm labor second trimester with preterm delivery second trimester, fetus 1	ICD-10-CM	Diagnosis
O60.12X2	Preterm labor second trimester with preterm delivery second trimester, fetus 2	ICD-10-CM	Diagnosis



Code	Description	Code Type	Code Category
O60.12X3	Preterm labor second trimester with preterm delivery second trimester, fetus 3	ICD-10-CM	Diagnosis
O60.12X4	Preterm labor second trimester with preterm delivery second trimester, fetus 4	ICD-10-CM	Diagnosis
O60.12X5	Preterm labor second trimester with preterm delivery second trimester, fetus 5	ICD-10-CM	Diagnosis
O60.12X9	Preterm labor second trimester with preterm delivery second trimester, other fetus	ICD-10-CM	Diagnosis
O60.13X0	Preterm labor second trimester with preterm delivery third trimester, not applicable or unspecified	ICD-10-CM	Diagnosis
O60.13X1	Preterm labor second trimester with preterm delivery third trimester, fetus 1	ICD-10-CM	Diagnosis
O60.13X2	Preterm labor second trimester with preterm delivery third trimester, fetus 2	ICD-10-CM	Diagnosis
O60.13X3	Preterm labor second trimester with preterm delivery third trimester, fetus 3	ICD-10-CM	Diagnosis
O60.13X4	Preterm labor second trimester with preterm delivery third trimester, fetus 4	ICD-10-CM	Diagnosis
O60.13X5	Preterm labor second trimester with preterm delivery third trimester, fetus 5	ICD-10-CM	Diagnosis
O60.13X9	Preterm labor second trimester with preterm delivery third trimester, other fetus	ICD-10-CM	Diagnosis
O60.14X0	Preterm labor third trimester with preterm delivery third trimester, not applicable or unspecified	ICD-10-CM	Diagnosis
O60.14X1	Preterm labor third trimester with preterm delivery third trimester, fetus 1	ICD-10-CM	Diagnosis
O60.14X2	Preterm labor third trimester with preterm delivery third trimester, fetus 2	ICD-10-CM	Diagnosis
O60.14X3	Preterm labor third trimester with preterm delivery third trimester, fetus 3	ICD-10-CM	Diagnosis
O60.14X4	Preterm labor third trimester with preterm delivery third trimester, fetus 4	ICD-10-CM	Diagnosis
O60.14X5	Preterm labor third trimester with preterm delivery third trimester, fetus 5	ICD-10-CM	Diagnosis
O60.14X9	Preterm labor third trimester with preterm delivery third trimester, other fetus	ICD-10-CM	Diagnosis
O60.22X0	Term delivery with preterm labor, second trimester, not applicable or unspecified	ICD-10-CM	Diagnosis
O60.22X1	Term delivery with preterm labor, second trimester, fetus 1	ICD-10-CM	Diagnosis
O60.22X2	Term delivery with preterm labor, second trimester, fetus 2	ICD-10-CM	Diagnosis
O60.22X3	Term delivery with preterm labor, second trimester, fetus 3	ICD-10-CM	Diagnosis
O60.22X4	Term delivery with preterm labor, second trimester, fetus 4	ICD-10-CM	Diagnosis
O60.22X5	Term delivery with preterm labor, second trimester, fetus 5	ICD-10-CM	Diagnosis
O60.22X9	Term delivery with preterm labor, second trimester, other fetus	ICD-10-CM	Diagnosis
O60.23X0	Term delivery with preterm labor, third trimester, not applicable or unspecified	ICD-10-CM	Diagnosis
O60.23X1	Term delivery with preterm labor, third trimester, fetus 1	ICD-10-CM	Diagnosis
O60.23X2	Term delivery with preterm labor, third trimester, fetus 2	ICD-10-CM	Diagnosis
O60.23X3	Term delivery with preterm labor, third trimester, fetus 3	ICD-10-CM	Diagnosis
O60.23X4	Term delivery with preterm labor, third trimester, fetus 4	ICD-10-CM	Diagnosis
O60.23X5	Term delivery with preterm labor, third trimester, fetus 5	ICD-10-CM	Diagnosis
O60.23X9	Term delivery with preterm labor, third trimester, other fetus	ICD-10-CM	Diagnosis
063.2	Delayed delivery of second twin, triplet, etc	ICD-10-CM	Diagnosis
067.0	Intrapartum hemorrhage with coagulation defect	ICD-10-CM	Diagnosis
067.8	Other intrapartum hemorrhage	ICD-10-CM	Diagnosis
067.9	Intrapartum hemorrhage, unspecified	ICD-10-CM	Diagnosis



Code	Description	Code Type	Code Category
O68.	Labor and delivery complicated by abnormality of fetal acid-base balance	ICD-10-CM	Diagnosis
O69.0XX0	Labor and delivery complicated by prolapse of cord, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.0XX1	Labor and delivery complicated by prolapse of cord, fetus 1	ICD-10-CM	Diagnosis
O69.0XX2	Labor and delivery complicated by prolapse of cord, fetus 2	ICD-10-CM	Diagnosis
O69.0XX3	Labor and delivery complicated by prolapse of cord, fetus 3	ICD-10-CM	Diagnosis
O69.0XX4	Labor and delivery complicated by prolapse of cord, fetus 4	ICD-10-CM	Diagnosis
O69.0XX5	Labor and delivery complicated by prolapse of cord, fetus 5	ICD-10-CM	Diagnosis
O69.0XX9	Labor and delivery complicated by prolapse of cord, other fetus	ICD-10-CM	Diagnosis
O69.1XX0	Labor and delivery complicated by cord around neck, with compression, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.1XX1	Labor and delivery complicated by cord around neck, with compression, fetus 1	ICD-10-CM	Diagnosis
O69.1XX2	Labor and delivery complicated by cord around neck, with compression, fetus 2	ICD-10-CM	Diagnosis
O69.1XX3	Labor and delivery complicated by cord around neck, with compression, fetus 3	ICD-10-CM	Diagnosis
O69.1XX4	Labor and delivery complicated by cord around neck, with compression, fetus 4	ICD-10-CM	Diagnosis
O69.1XX5	Labor and delivery complicated by cord around neck, with compression, fetus 5	ICD-10-CM	Diagnosis
O69.1XX9	Labor and delivery complicated by cord around neck, with compression, other fetus	ICD-10-CM	Diagnosis
O69.2XX0	Labor and delivery complicated by other cord entanglement, with compression, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.2XX1	Labor and delivery complicated by other cord entanglement, with compression, fetus 1	ICD-10-CM	Diagnosis
O69.2XX2	Labor and delivery complicated by other cord entanglement, with compression, fetus 2	ICD-10-CM	Diagnosis
O69.2XX3	Labor and delivery complicated by other cord entanglement, with compression, fetus 3	ICD-10-CM	Diagnosis
O69.2XX4	Labor and delivery complicated by other cord entanglement, with compression, fetus 4	ICD-10-CM	Diagnosis
O69.2XX5	Labor and delivery complicated by other cord entanglement, with compression, fetus 5	ICD-10-CM	Diagnosis
O69.2XX9	Labor and delivery complicated by other cord entanglement, with compression, other fetus	ICD-10-CM	Diagnosis
O69.3XX0	Labor and delivery complicated by short cord, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.3XX1	Labor and delivery complicated by short cord, fetus 1	ICD-10-CM	Diagnosis
O69.3XX2	Labor and delivery complicated by short cord, fetus 2	ICD-10-CM	Diagnosis
O69.3XX3	Labor and delivery complicated by short cord, fetus 3	ICD-10-CM	Diagnosis
O69.3XX4	Labor and delivery complicated by short cord, fetus 4	ICD-10-CM	Diagnosis
O69.3XX5	Labor and delivery complicated by short cord, fetus 5	ICD-10-CM	Diagnosis
O69.3XX9	Labor and delivery complicated by short cord, other fetus	ICD-10-CM	Diagnosis
O69.4XX0	Labor and delivery complicated by vasa previa, not applicable or unspecified	ICD-10-CM	Diagnosis



Code	Description	Code Type	Code Category
Code	Description	code Type	category
O69.4XX1	Labor and delivery complicated by vasa previa, fetus 1	ICD-10-CM	Diagnosis
O69.4XX2	Labor and delivery complicated by vasa previa, fetus 2	ICD-10-CM	Diagnosis
O69.4XX3	Labor and delivery complicated by vasa previa, fetus 3	ICD-10-CM	Diagnosis
O69.4XX4	Labor and delivery complicated by vasa previa, fetus 4	ICD-10-CM	Diagnosis
O69.4XX5	Labor and delivery complicated by vasa previa, fetus 5	ICD-10-CM	Diagnosis
O69.4XX9	Labor and delivery complicated by vasa previa, other fetus	ICD-10-CM	Diagnosis
O69.5XX0	Labor and delivery complicated by vascular lesion of cord, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.5XX1	Labor and delivery complicated by vascular lesion of cord, fetus 1	ICD-10-CM	Diagnosis
O69.5XX1	Labor and delivery complicated by vascular lesion of cord, fetus 2	ICD-10-CM	Diagnosis
O69.5XX3	Labor and delivery complicated by vascular lesion of cord, fetus 3	ICD-10-CM	Diagnosis
O69.5XX4	Labor and delivery complicated by vascular lesion of cord, fetus 4	ICD-10-CM	Diagnosis
O69.5XX5	Labor and delivery complicated by vascular lesion of cord, fetus 5	ICD-10-CM	Diagnosis
O69.5XX9	Labor and delivery complicated by vascular lesion of cord, other fetus	ICD-10-CM	Diagnosis
O69.81X0	Labor and delivery complicated by cord around neck, without compression, not applicable	ICD-10-CM	Diagnosis
003.01/10	or unspecified	102 10 011	Diagnosis
O69.81X1	Labor and delivery complicated by cord around neck, without compression, fetus 1	ICD-10-CM	Diagnosis
O69.81X2	Labor and delivery complicated by cord around neck, without compression, fetus 2	ICD-10-CM	Diagnosis
O69.81X3	Labor and delivery complicated by cord around neck, without compression, fetus 3	ICD-10-CM	Diagnosis
O69.81X4	Labor and delivery complicated by cord around neck, without compression, fetus 4	ICD-10-CM	Diagnosis
O69.81X5	Labor and delivery complicated by cord around neck, without compression, fetus 5	ICD-10-CM	Diagnosis
O69.81X9	Labor and delivery complicated by cord around neck, without compression, other fetus	ICD-10-CM	Diagnosis
O69.82X0	Labor and delivery complicated by other cord entanglement, without compression, not applicable or unspecified	ICD-10-CM	Diagnosis
O69.82X1	Labor and delivery complicated by other cord entanglement, without compression, fetus 1	ICD-10-CM	Diagnosis
O69.82X2	Labor and delivery complicated by other cord entanglement, without compression, fetus 2	ICD-10-CM	Diagnosis
O69.82X3	Labor and delivery complicated by other cord entanglement, without compression, fetus 3	ICD-10-CM	Diagnosis
O69.82X4	Labor and delivery complicated by other cord entanglement, without compression, fetus 4	ICD-10-CM	Diagnosis
O69.82X5	Labor and delivery complicated by other cord entanglement, without compression, fetus 5	ICD-10-CM	Diagnosis
O69.82X9	Labor and delivery complicated by other cord entanglement, without compression, other fetus	ICD-10-CM	Diagnosis
O69.89X0	Labor and delivery complicated by other cord complications, not applicable or unspecified	ICD-10-CM	Diagnosis



Code	Description	Code Type	Code Category
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O69.89X1	Labor and delivery complicated by other cord complications, fetus 1	ICD-10-CM	Diagnosis
O69.89X2	Labor and delivery complicated by other cord complications, fetus 2	ICD-10-CM	Diagnosis
O69.89X3	Labor and delivery complicated by other cord complications, fetus 3	ICD-10-CM	Diagnosis
O69.89X4	Labor and delivery complicated by other cord complications, fetus 4	ICD-10-CM	Diagnosis
O69.89X5	Labor and delivery complicated by other cord complications, fetus 5	ICD-10-CM	Diagnosis
O69.89X9	Labor and delivery complicated by other cord complications, other fetus	ICD-10-CM	Diagnosis
O69.9XX0	Labor and delivery complicated by cord complication, unspecified, not applicable or	ICD-10-CM	Diagnosis
	unspecified		
O69.9XX1	Labor and delivery complicated by cord complication, unspecified, fetus 1	ICD-10-CM	Diagnosis
O69.9XX2	Labor and delivery complicated by cord complication, unspecified, fetus 2	ICD-10-CM	Diagnosis
O69.9XX3	Labor and delivery complicated by cord complication, unspecified, fetus 3	ICD-10-CM	Diagnosis
O69.9XX4	Labor and delivery complicated by cord complication, unspecified, fetus 4	ICD-10-CM	Diagnosis
O69.9XX5	Labor and delivery complicated by cord complication, unspecified, fetus 5	ICD-10-CM	Diagnosis
O69.9XX9	Labor and delivery complicated by cord complication, unspecified, other fetus	ICD-10-CM	Diagnosis
070.0	First degree perineal laceration during delivery	ICD-10-CM	Diagnosis
070.1	Second degree perineal laceration during delivery	ICD-10-CM	Diagnosis
070.20	Third degree perineal laceration during delivery, unspecified	ICD-10-CM	Diagnosis
070.21	Third degree perineal laceration during delivery, Illa	ICD-10-CM	Diagnosis
070.22	Third degree perineal laceration during delivery, IIIb	ICD-10-CM	Diagnosis
070.23	Third degree perineal laceration during delivery, IIIc	ICD-10-CM	Diagnosis
070.3	Fourth degree perineal laceration during delivery	ICD-10-CM	Diagnosis
070.4	Anal sphincter tear complicating delivery, not associated with third degree laceration	ICD-10-CM	Diagnosis
070.9	Perineal laceration during delivery, unspecified	ICD-10-CM	Diagnosis
074.0	Aspiration pneumonitis due to anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.1	Other pulmonary complications of anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.2	Cardiac complications of anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.3	Central nervous system complications of anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.4	Toxic reaction to local anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.5	Spinal and epidural anesthesia-induced headache during labor and delivery	ICD-10-CM	Diagnosis
074.6	Other complications of spinal and epidural anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.7	Failed or difficult intubation for anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.8	Other complications of anesthesia during labor and delivery	ICD-10-CM	Diagnosis
074.9	Complication of anesthesia during labor and delivery, unspecified	ICD-10-CM	Diagnosis
075.0	Maternal distress during labor and delivery	ICD-10-CM	Diagnosis
075.1	Shock during or following labor and delivery	ICD-10-CM	Diagnosis
075.5	Delayed delivery after artificial rupture of membranes	ICD-10-CM	Diagnosis
075.81	Maternal exhaustion complicating labor and delivery	ICD-10-CM	Diagnosis
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O75.82 Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section ICD-10-CM Diagnosis O75.89 Other specified complications of labor and delivery of policy of the specified of complication of labor and delivery unspecified ICD-10-CM Diagnosis O76.9 Complication of labor and delivery unspecified ICD-10-CM Diagnosis O77.0 Labor and delivery complicated by meconium in amniotic fluid ICD-10-CM Diagnosis O77.8 Labor and delivery complicated by other evidence of fetal stress ICD-10-CM Diagnosis O87.9 Labor and delivery complicated by tetal stress, unspecified ICD-10-CM Diagnosis O80. Encounter for full-term uncomplicated delivery ICD-10-CM Diagnosis O82. Encounter for cesarean delivery without indication ICD-10-CM Diagnosis O88.12 Amniotic fluid embolism in childbirth ICD-10-CM Diagnosis O88.12 Thromboembolism in childbirth ICD-10-CM Diagnosis O88.32 Peymic and septic embolism in childbirth ICD-10-CM Diagnosis O88.22 Tuberculosis complicating childb	Code	Description	Code Type	Code Category
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088.12 Amniotic fluid embolism in childbirth ICD-10-CM Diagnosis 088.22 Thromboembolism in childbirth ICD-10-CM Diagnosis 088.32 Pyemic and septic embolism in childbirth ICD-10-CM Diagnosis 088.82 Other embolism in childbirth ICD-10-CM Diagnosis 098.02 Tuberculosis complicating childbirth ICD-10-CM Diagnosis 098.12 Syphilis complicating childbirth ICD-10-CM Diagnosis 098.22 Gonorrhea complicating childbirth ICD-10-CM Diagnosis 098.32 Other infections with a predominantly sexual mode of transmission complicating childbirth ICD-10-CM Diagnosis 098.42 Viral hepatitis complicating childbirth ICD-10-CM Diagnosis 098.52 Other viral diseases complicating childbirth ICD-10-CM Diagnosis 098.62 Protozoal diseases complicating childbirth ICD-10-CM Diagnosis 098.72 Human immunodeficiency virus [HIV] disease complicating childbirth ICD-10-CM Diagnosis 098.82 Other maternal infectious and parasitic diseases complicating childbirth ICD-10-CM Diagnosis 098.92 Unspecified mat	082.	Encounter for cesarean delivery without indication	ICD-10-CM	Diagnosis
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	099.42		ICD-10-CM	
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O99.62 Diseases of the digestive system complicating childbirth ICD-10-CM Diagnosis	099.62	Diseases of the digestive system complicating childbirth	ICD-10-CM	Diagnosis



			Code
Code	Description	Code Type	Category
099.72	Diseases of the skin and subcutaneous tissue complicating childbirth	ICD-10-CM	Diagnosis
099.814	Abnormal glucose complicating childbirth	ICD-10-CM	Diagnosis
O99.824	Streptococcus B carrier state complicating childbirth	ICD-10-CM	Diagnosis
099.834	Other infection carrier state complicating childbirth	ICD-10-CM	Diagnosis
O99.844	Bariatric surgery status complicating childbirth	ICD-10-CM	Diagnosis
O9A.12	Malignant neoplasm complicating childbirth	ICD-10-CM	Diagnosis
O9A.22	Injury, poisoning and certain other consequences of external causes complicating childbirth	ICD-10-CM	Diagnosis
O9A.32	Physical abuse complicating childbirth	ICD-10-CM	Diagnosis
O9A.42	Sexual abuse complicating childbirth	ICD-10-CM	Diagnosis
O9A.52	Psychological abuse complicating childbirth	ICD-10-CM	Diagnosis
P03.0	Newborn affected by breech delivery and extraction	ICD-10-CM	Diagnosis
P03.2	Newborn affected by forceps delivery	ICD-10-CM	Diagnosis
P03.3	Newborn affected by delivery by vacuum extractor [ventouse]	ICD-10-CM	Diagnosis
P03.4	Newborn affected by Cesarean delivery	ICD-10-CM	Diagnosis
P03.5	Newborn affected by precipitate delivery	ICD-10-CM	Diagnosis
P07.00	Extremely low birth weight newborn, unspecified weight	ICD-10-CM	Diagnosis
P07.01	Extremely low birth weight newborn, less than 500 grams	ICD-10-CM	Diagnosis
P07.02	Extremely low birth weight newborn, 500-749. grams	ICD-10-CM	Diagnosis
P07.03	Extremely low birth weight newborn, 750-999 grams	ICD-10-CM	Diagnosis
P07.10	Other low birth weight newborn, unspecified weight	ICD-10-CM	Diagnosis
P07.14	Other low birth weight newborn, 1000-1249 grams	ICD-10-CM	Diagnosis
P07.15	Other low birth weight newborn, 1250-1499 grams	ICD-10-CM	Diagnosis
P07.16	Other low birth weight newborn, 1500-1749. grams	ICD-10-CM	Diagnosis
P07.17	Other low birth weight newborn, 1750-1999 grams	ICD-10-CM	Diagnosis
P07.18	Other low birth weight newborn, 2000-2499 grams	ICD-10-CM	Diagnosis
P07.20	Extreme immaturity of newborn, unspecified weeks of gestation	ICD-10-CM	Diagnosis
P07.21	Extreme immaturity of newborn, gestational age less than 23 completed weeks	ICD-10-CM	Diagnosis
P07.22	Extreme immaturity of newborn, gestational age 23 completed weeks	ICD-10-CM	Diagnosis
P07.23	Extreme immaturity of newborn, gestational age 24 completed weeks	ICD-10-CM	Diagnosis
P07.24	Extreme immaturity of newborn, gestational age 25 completed weeks	ICD-10-CM	Diagnosis
P07.25	Extreme immaturity of newborn, gestational age 26 completed weeks	ICD-10-CM	Diagnosis
P07.26	Extreme immaturity of newborn, gestational age 27 completed weeks	ICD-10-CM	Diagnosis
P07.30	Preterm newborn, unspecified weeks of gestation	ICD-10-CM	Diagnosis
P07.31	Preterm newborn, gestational age 28 completed weeks	ICD-10-CM	Diagnosis
P07.32	Preterm newborn, gestational age 29 completed weeks	ICD-10-CM	Diagnosis
P07.33	Preterm newborn, gestational age 30 completed weeks	ICD-10-CM	Diagnosis
P07.34	Preterm newborn, gestational age 31 completed weeks	ICD-10-CM	Diagnosis
P07.35	Preterm newborn, gestational age 32 completed weeks	ICD-10-CM	Diagnosis



Code	Description	Code Type	Code Category
P07.36	Preterm newborn, gestational age 33 completed weeks	ICD-10-CM	Diagnosis
P07.37	Preterm newborn, gestational age 34 completed weeks	ICD-10-CM	Diagnosis
P07.38	Preterm newborn, gestational age 35 completed weeks	ICD-10-CM	Diagnosis
P07.39	Preterm newborn, gestational age 36 completed weeks	ICD-10-CM	Diagnosis
P08.21	Post-term newborn	ICD-10-CM	Diagnosis
P08.22	Prolonged gestation of newborn	ICD-10-CM	Diagnosis
Z37.0	Single live birth	ICD-10-CM	Diagnosis
Z37.2	Twins, both liveborn	ICD-10-CM	Diagnosis
Z37.3	Twins, one liveborn and one stillborn	ICD-10-CM	Diagnosis
Z37.50	Multiple births, unspecified, all liveborn	ICD-10-CM	Diagnosis
Z37.51	Triplets, all liveborn	ICD-10-CM	Diagnosis
Z37.52	Quadruplets, all liveborn	ICD-10-CM	Diagnosis
Z37.53	Quintuplets, all liveborn	ICD-10-CM	Diagnosis
Z37.54	Sextuplets, all liveborn	ICD-10-CM	Diagnosis
Z37.59	Other multiple births, all liveborn	ICD-10-CM	Diagnosis
Z37.60	Multiple births, unspecified, some liveborn	ICD-10-CM	Diagnosis
Z37.61	Triplets, some liveborn	ICD-10-CM	Diagnosis
Z37.62	Quadruplets, some liveborn	ICD-10-CM	Diagnosis
Z37.63	Quintuplets, some liveborn	ICD-10-CM	Diagnosis
Z37.64	Sextuplets, some liveborn	ICD-10-CM	Diagnosis
Z37.69	Other multiple births, some liveborn	ICD-10-CM	Diagnosis
Z37.9	Outcome of delivery, unspecified	ICD-10-CM	Diagnosis
Z38.00	Single liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.01	Single liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.1	Single liveborn infant, born outside hospital	ICD-10-CM	Diagnosis
Z38.2	Single liveborn infant, unspecified as to place of birth	ICD-10-CM	Diagnosis
Z38.30	Twin liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.31	Twin liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.4	Twin liveborn infant, born outside hospital	ICD-10-CM	Diagnosis
Z38.5	Twin liveborn infant, unspecified as to place of birth	ICD-10-CM	Diagnosis
Z38.61	Triplet liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.62	Triplet liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.63	Quadruplet liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.64	Quadruplet liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.65	Quintuplet liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.66	Quintuplet liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.68	Other multiple liveborn infant, delivered vaginally	ICD-10-CM	Diagnosis
Z38.69	Other multiple liveborn infant, delivered by cesarean	ICD-10-CM	Diagnosis
Z38.7	Other multiple liveborn infant, born outside hospital	ICD-10-CM	Diagnosis



			Code
Code	Description	Code Type	Category
Z38.8	Other multiple liveborn infant, unspecified as to place of birth	ICD-10-CM	Diagnosis
0W8NXZZ	Division of Female Perineum, External Approach	ICD-10-PCS	Procedure
10900ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Open Approach	ICD-10-PCS	Procedure
10903ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Approach	ICD-10-PCS	Procedure
10904ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Percutaneous Endoscopic Approach	ICD-10-PCS	Procedure
10907ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10908ZC	Drainage of Amniotic Fluid, Therapeutic from Products of Conception, Via Natural or Artificial Opening Endoscopic	ICD-10-PCS	Procedure
10D00Z0	Extraction of Products of Conception, Classical, Open Approach	ICD-10-PCS	Procedure
10D00Z1	Extraction of Products of Conception, Low Cervical, Open Approach	ICD-10-PCS	Procedure
10D00Z2	Extraction of Products of Conception, Extraperitoneal, Open Approach	ICD-10-PCS	Procedure
10D07Z3	Extraction of Products of Conception, Low Forceps, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10D07Z4	Extraction of Products of Conception, Mid Forceps, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10D07Z5	Extraction of Products of Conception, High Forceps, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10D07Z6	Extraction of Products of Conception, Vacuum, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10D07Z7	Extraction of Products of Conception, Internal Version, Via Natural or Artificial Opening	ICD-10-PCS	Procedure
10D07Z8 10E0XZZ 10S07ZZ	Extraction of Products of Conception, Other, Via Natural or Artificial Opening Delivery of Products of Conception, External Approach Reposition Products of Conception, Via Natural or Artificial Opening	ICD-10-PCS ICD-10-PCS ICD-10-PCS	Procedure Procedure Procedure
1030722	Reposition Froducts of Conception, via Natural of Artificial Opening	ICD-10-PC3	FIOCEGUIE



Appendix F. Specifications Defining Parameters for this Request, Type 1

This request used the Cohort Identification and Descriptive Analysis (CIDA) Tool, version 5.4.4, to estimate use of dolutegravir among all women of reproductive age and women of reproductive age with a prior human immunodeficiency virus (HIV) diagnosis in the Sentinel Distributed Database (SDD).

Query Period: August 1, 2013 to March 31, 2018

Coverage Requirement: Medical and Drug

Enrollment Requirement: 180 days **Enrollment Gap:** 45 days

Sex: Females

Age Groups: 15-49 years

			Event		Pre-Existing Conditions						
Scenario	Event	Incident with respect to:	Washout (Days)	Care Setting	Cohort Definition	Condition	Include or Exclude	Care Setting ¹	Number of Code Occurrences	Lookback	1
Scenario	Event	respect to.	washout (Days)	Jetting	Conort Demintion	Condition	Exclude	Care Setting	Occurrences	LOUKDACK	
1	Dolutegravir	Dolutegravir	0	Any	Include all valid events per patient	None	N/A	N/A	N/A	N/A	
2	Dolutegravir	Dolutegravir	0	Any	Include all valid events per patient	HIV	Include	AV*, OA* IP*	>1 ≥1	-180, 0	

¹Ambulatory Visit (AV), Other Ambulatory Visit (OA), Inpatient Visit (IP)

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



Appendix G. Specifications Defining Parameters for this Request, Type 4

This request used the Cohort Identification and Descriptive Analysis (CIDA) Tool, version 5.4.4, to estimate dolutegravir use during pregnancy among women with live-birth deliveries in the Sentinel Distributed Database (SDD).

Query Period (Binds Delivery Date): August 1, 2013 to March 31, 2018

Coverage Requirement: Medical and Drug

Enrollment Requirement Prior to Delivery Date: 481 Days

(301 day delivery length + 180 day pre-pregnancy exposure assessment period)

Enrollment Requirement Following Delivery Date: 0 Days

Enrollment Gap: 45 Days

Age Groups (calculated at age at delivery date): 15-49 years

Sex: Females

		Pregna	ancy Episode	: Creation			Exposure Episode Creation						
					Pregnancy								
				Pre/-Post-	Duration in								
		Delivery		Term	Absence of							Pre-	
				Evaluation	-							Pregnancy	
	Delivery	Period	Duration	Window	Duration			Washout	Cohort	Episode Gap	•	Evaluation	
Scenario	Definition	(Days)	Definition	(Days)	Code (Days)	Exposure	respect to:	(Days)	Definition	Туре	Gap (Days)	(Days)	Characteristic
1	Use Algorithm Codes*	301	Use Algorithm Codes*	7	273	Dolutegravir	Dolutegravir	0	Include all valid exposure episodes during a pregnancy episode	Fixed	15	180	See Characteristic section below

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

	Characteristic	Care Setting	Evaluation Window
	Exposed at LMP and continuing into pregnancy	Any	(-1, -1) AND (0, 30)
I Dolutegravir	Exposed in first month of pregnancy and not in the pre-pregnancy period	Any	(0, 30) AND NOT (-180, -1)
	Exposed at LMP or first exposed in the first month of pregnancy	Any	(0, 30)
	Exposed after the first month from LMP	Any	(31, 301)
	Exposed after the first month from LMP and not in the first month of	Any	(31, 301) AND NOT (0, 30)