Disclaimer

The following report(s) provides findings from an FDA-initiated query using its Mini-Sentinel pilot. While Mini-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 Mini-Sentinel, and seeking to better understand the capabilities of the Mini-Sentinel pilot.

Data obtained through Mini-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 the Mini-Sentinel pilot in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Mini-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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Request ID: to07_add_preg_ahr_wp008_nsdp_v01

Request Description: This report contains the prevalence of antiemetic use among women of reproductive age who delivered a liveborn infant, between January 1, 2001 to December 31, 2014 in the Mini-Sentinel Distributed Database (MSDD). Results for antiemetic use are also presented for a matched comparator cohort with no live-birth deliveries during the request period.

Sentinel Modular Program Tool Used: Pregnancy Tool Prototype

Data Source: Data from January 1, 2001 to December 31, 2014, from 15 Data Partners contributing to the MSDD were included in this report. This request was distributed to Data Partners on November 10, 2015. Please see Appendix A for a list of available data from each Data Partner.

Study Design: This request was designed to calculate descriptive statistics regarding characteristics of the pregnant population with live-birth deliveries and a matched non-pregnant comparator group, and to determine the frequency of pregnancy episodes and non-pregnant episodes exposed to antiemetic medications of interest. Results were stratified by trimester, calendar year of delivery, and maternal age.

Exposures of Interest: The exposures of interest in this report were antiemetics, including ondansetron, doxylamine succinate/pyridoxine HCl, granisetron, metoclopramide HCl, netupitant/palonosetron HCl, palonosetron, prochlorperazine, and promethazine HCl. These were defined using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) injection procedure codes. Please see Appendices B and C for a list of generic names and HCPCS codes used to define exposures in this request.

Cohort Eligibility Criteria: Women included in the cohort were required to be continuously enrolled in plans with both medical and drug coverage for at least 480 days prior to the admission date of delivery, during which gaps in coverage of up to 45 days were allowed. The following age groups were included in the cohorts: < 20, 20-24, 25-29, 30-34, 35-39, 40-44, and 45-54 years. For the pregnant cohort, deliveries were limited to those that occurred in the inpatient setting, and were defined using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis codes and Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes. Please see Appendix D for a list of diagnosis and procedure codes used to define live-birth delivery. A comparator group of non-pregnant women (women who did not deliver a live-born infant) with similar eligibility criteria was identified, matching on age, enrollment criteria, and restriction criteria for pre-existing baseline conditions or use of a medication in the period prior to pregnancy.

Baseline Characteristics: The following characteristics were assessed in the 180 days prior to pregnancy episode start: pre-existing conditions (multiple sclerosis and lupus) and prior dispensings of an antidiabetic medication. Please see Appendices E and F for a list of ICD-9-CM and generic drug names used to define baseline characteristics in this request. The frequency of pregnancy episodes with pre- and post-term births were also presented in the baseline tables, stratified by the specific ICD-9-CM diagnosis codes used to define gestational age and birth outcomes. Please see Appendix G for the list of ICD-9-CM diagnosis codes used to define pre- and post-term birth and gestational age.

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

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

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Glossary of Terms in Modular Program 8*

Age Stratifications - Age group categories for reporting. Specifying this parameter will (1) restrict to certain age groups and (2) specify how age groups will be stratified in the result tables. For example, to have results stratified by 20 year increments for members 40-99 years of age, AGESTRAT=40-59 60-79 80-99 would be entered.

Approval Date - Approval date of new molecular entity of interest.

Days of Supply Groups - Days of supply categories for reporting. This parameter will specify how claim days of supply will be stratified in result tables examining distribution of days supplied. For example, to have results stratified by 15 days increments for claims with 15-60 days of supply, DISPDAYSSUPSTRAT=15-29 30-44 45-60 would be entered.

Enrollment Days - Optional parameter to ensure a minimum number of days of continuous enrollment prior to the start of the first treatment episode.

Enrollment Gap - Sets the number of days that will be bridged between two consecutive enrollment periods to create a "continuously enrolled" period. For example, if ENROLGAP=30 and a member is eligible for medical and drug coverage in periods 1/1/2007-3/27/2007 and 4/1/2007-12/21/2007 (i.e., a 4-day gap between two consecutive enrollment episodes), the member will be considered continuously enrolled from 1/1/2007 to 12/21/2007. Any gaps in enrollment greater than 30 days will result in a new enrollment period, and all the days in the gap will be considered un-enrolled. A recommended enrollment gap is 45 days.

Episode Gap Type - Specifies the type of algorithm to use for the calculation of episode gaps. Valid values are: (1) F: Fixed episode gap. The value specified in EPISODEGAP will be used to determine if two consecutive claims are in the same episode; and (2) P: Percentage episode gap. The value specified in EPISODEGAP will represent a percentage of the previous dispensing's days of supply to determine if two consecutive claims are in the same episode.

Episode Gap - For a given claim, if EPISODEGAPTYPE is Fixed (F), a gap of more than EPISODEGAP days between the claim date and the date of the last day of supply of the previous claim triggers a new treatment episode. If EPISODEGAPTYPE is Percentage (P), a gap of more than EPISODEGAP percent of the previous claim days of supply days between the claim date and the date of the last day of supply of the previous claim triggers a new treatment episode.

Exposure - NDC and/or procedure and/or diagnosis code values for the exposure(s) of interest.

Exposure Extension Period - Extends the length of the treatment episode by a specified number of days. A treatment episode can be extended EXPEXTPER days after the last day of supply of the treatment episode's last claim.

New Molecular Entity (NME) Indicator - Specifies whether exposures should be treated as a NME; that is, the MP algorithm will not look prior to the query period start date (either approval or launch date) when applying the washout (WASHPER) condition. This parameter has no impact on how ENRDAYS is processed, i.e., when ENRDAYS is specified the program will always look for enrollment prior to the query period start date if necessary.

Maximum Days Supplied - Maximum days of supply for a claim to be valid.

Minimum Days Supplied - Minimum days of supply for a dispensing to be valid.

Minimum Episode Duration - Used to reject members with first treatment episode of fewer than a certain number of days.

Stockpiling Type - Specifies the type of stockpiling algorithm to use. Valid values are: (1) S: Standard algorithm. Slides overlapping dispensings to create a continuous sequence of non-overlapping dispensings; and (2) R: Revised algorithm. If a second dispensing occurs at least XX% (i.e., XX% or more) of the time through the previous dispensing, the length of the second dispensing is added to the end of the first dispensing; if the second dispensing occurs less than XX% of the time through the first dispensing then the second dispensing time is begun at the time it is dispensed and the first one is truncated.

Stockpiling Percent - Used in conjunction with Stockpiling Type to specify the percentage to be applied when Stockpiling Type = R

Study End Date - Query period end date.

Total Days of Supply Thresholds - Total days of supply threshold(s) for reporting. This parameter will specify how members' total days of supply (for all observed dispensings) will be stratified in the result tables examining distribution of members by number of total days supplied. For example, to have results stratified by 60 total days of supply, TOTALDAYSSUPTHRESH=060 120 180 240 300 would be entered.

Washout Period - Length of washout period in days. The washout period is a period of time before an incident exposure index date during which a member cannot have any evidence of exposure(s) of interest.

*all terms may not be used in this report

Table 1. Baseline Characteristics of Women with Live-Birth Deliveries and their Matched Non-Pregnant Comparators[1] in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2001 and December 31, 2014

	Pregnant Cohort		Matched Comparator Cohort	
Characteristic	**Number**	**Percent**	**Number**	**Percent**
Patients	1,753,306	100.00%	1,739,741	100.00%
Episodes	2,101,482	100.00%	2,101,482	100.00%
Demographics	**Number**	**Percent**	**Number**	**Percent**
Age group (years)				
< 20	126,298	6.01%	126,298	6.01%
20-24	291,136	13.85%	290,998	13.85%
25-29	545,817	25.97%	545,771	25.97%
30-34	679,811	32.35%	679,931	32.35%
35-39	364,461	17.34%	364,525	17.35%
40-44	84,823	4.04%	84,812	4.04%
45-54	9,136	0.43%	9,147	0.44%
Year				
2001	41,747	1.99%	41,747	1.99%
2002	62,183	2.96%	62,183	2.96%
2003	62,160	2.96%	62,160	2.96%
2004	61,431	2.92%	61,431	2.92%
2005	64,428	3.07%	64,428	3.07%
2006	67,901	3.23%	67,901	3.23%
2007	122,487	5.83%	122,487	5.83%
2008	146,340	6.96%	146,340	6.96%
2009	246,077	11.71%	246,077	11.71%
2010	275,689	13.12%	275,689	13.12%
2011	263,593	12.54%	263,593	12.54%
2012	252,698	12.02%	252,698	12.02%
2013	245,194	11.67%	245,194	11.67%
2014	189,554	9.02%	189,554	9.02%
Pre-Existing Conditions	**Number**	**Percent**	**Number**	**Percent**
Lupus	2,612	0.12%	0	0.00%
Multiple sclerosis	2,443	0.12%	0	0.00%
Medications Used in the Pre-Pregnancy Period	**Number**	**Percent**	**Number**	**Percent**
Antidiabetic medications	17,394	0.83%	0	0.00%
Pre-Term Birth Codes	**Number**	**Percent**	**Number**	**Percent**
644.21	147,424	7.02%	-	-
765.0*	1,663	0.08%	-	-
765.1*	25,826	1.23%	-	-
765.20	1,113	0.05%	-	-
765.21	790	0.04%	-	-
765.22	272	0.01%	-	-
765.23	518	0.02%	-	-
765.24	586	0.03%	-	-
765.25	856	0.04%	-	-

Table 1. Baseline Characteristics of Women with Live-Birth Deliveries and their Matched Non-Pregnant Comparators[1] in the Mini-Sentinel Distributed Database (MSDD) between January 1, 2001 and December 31, 2014

	Pregnant Cohort		Matched Comparator Cohort	
Pre-Term Birth Codes, continued	**Number**	**Percent**	**Number**	**Percent**
765.26	1,600	0.08%	-	-
765.27	4,287	0.20%	-	-
765.28	14,433	0.69%	-	-
Any code for preterm birth	158,873	7.56%	-	-
Post-Term Birth Codes	**Number**	**Percent**	**Number**	**Percent**
645.1*	286,463	13.63%	-	-
645.2*	5,194	0.25%	-	-
766.21	7,654	0.36%	-	-
766.22	126	0.01%	-	-
Any code for postterm birth	291,660	13.88%	-	-

[1]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

Table 2a. Pregnancy Episodes with Antiemetic Use among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Trimester

	90 Days Before Pregnancy Start	Any Trimester	First Trimester	Second Trimester	Third Trimester	First, Second, and Third Trimester
Total Unique Episodes	2,101,482	2,101,482	2,101,482	2,101,482	2,101,005	2,101,005
Any Dolasetron mesylate	346 (0.02%)	3,127 (0.15%)	2,147 (0.10%)	1,556 (0.07%)	575 (0.03%)	164 (0.01%)
Injectable	327 (0.02%)	709 (0.03%)	382 (0.02%)	198 (0.01%)	168 (0.01%)	5 (0.00%)
Oral	20 (0.00%)	2,456 (0.12%)	1,793 (0.09%)	1,365 (0.06%)	407 (0.02%)	158 (0.01%)
Any Doxylamine succinate/Pyridoxine HCL	4 (0.00%)	3,350 (0.16%)	2,476 (0.12%)	2,221 (0.11%)	758 (0.04%)	321 (0.02%)
Oral	4 (0.00%)	3,350 (0.16%)	2,476 (0.12%)	2,221 (0.11%)	758 (0.04%)	321 (0.02%)
Any Granisetron	152 (0.01%)	343 (0.02%)	160 (0.01%)	129 (0.01%)	118 (0.01%)	10 (0.00%)
Injectable	147 (0.01%)	254 (0.01%)	97 (0.00%)	76 (0.00%)	100 (0.00%)	2 (0.00%)
Oral	4 (0.00%)	86 (0.00%)	61 (0.00%)	52 (0.00%)	15 (0.00%)	8 (0.00%)
Transdermal	1 (0.00%)	8 (0.00%)	4 (0.00%)	4 (0.00%)	4 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	8,958 (0.43%)	87,018 (4.14%)	53,897 (2.56%)	36,227 (1.72%)	19,859 (0.95%)	2,137 (0.10%)
Injectable	4,107 (0.20%)	15,937 (0.76%)	5,839 (0.28%)	4,084 (0.19%)	6,693 (0.32%)	41 (0.00%)
Oral	5,096 (0.24%)	75,578 (3.60%)	50,379 (2.40%)	33,268 (1.58%)	13,708 (0.65%)	1,951 (0.09%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	32,777 (1.56%)	304,436 (14.49%)	217,452 (10.35%)	142,623 (6.79%)	77,076 (3.67%)	24,834 (1.18%)
Injectable	21,422 (1.02%)	75,056 (3.57%)	30,423 (1.45%)	22,485 (1.07%)	30,839 (1.47%)	827 (0.04%)
Oral	13,485 (0.64%)	260,288 (12.39%)	201,982 (9.61%)	128,104 (6.10%)	51,072 (2.43%)	22,183 (1.06%)
Palonosetron	24 (0.00%)	83 (0.00%)	15 (0.00%)	40 (0.00%)	61 (0.00%)	2 (0.00%)
Injectable	24 (0.00%)	83 (0.00%)	15 (0.00%)	40 (0.00%)	61 (0.00%)	2 (0.00%)
Any Prochlorperazine	3,014 (0.14%)	15,639 (0.74%)	9,791 (0.47%)	5,712 (0.27%)	2,553 (0.12%)	174 (0.01%)
Injectable	661 (0.03%)	1,556 (0.07%)	715 (0.03%)	461 (0.02%)	409 (0.02%)	0 (0.00%)
Oral	2,030 (0.10%)	11,292 (0.54%)	7,016 (0.33%)	4,268 (0.20%)	1,860 (0.09%)	133 (0.01%)
Rectal	453 (0.02%)	3,678 (0.18%)	2,581 (0.12%)	1,191 (0.06%)	368 (0.02%)	27 (0.00%)
Any Promethazine HCL	35,299 (1.68%)	226,918 (10.80%)	149,552 (7.12%)	87,408 (4.16%)	60,018 (2.86%)	12,638 (0.60%)
Injectable	6,997 (0.33%)	28,998 (1.38%)	9,890 (0.47%)	7,288 (0.35%)	14,280 (0.68%)	277 (0.01%)
Oral	27,803 (1.32%)	187,865 (8.94%)	127,717 (6.08%)	73,345 (3.49%)	44,074 (2.10%)	10,309 (0.49%)
Rectal	3,928 (0.19%)	45,781 (2.18%)	29,737 (1.42%)	14,682 (0.70%)	6,838 (0.33%)	465 (0.02%)

![Mini-Sentinel]

Table 2b. Pregnancy Episodes with Antiemetic Use among Matched Comparator Cohort[1] in the Mini-Sentinel Distributed Database (MSDD), by Corresponding Trimester Time Periods[2]

	90 Days Before Pregnancy Start	Any Trimester	First Trimester	Second Trimester	Third Trimester	First, Second, and Third Trimester
Total Unique Episodes	2,101,482	2,101,482	2,101,482	2,101,482	2,101,005	2,101,005
Any Dolasetron mesylate	310 (0.01%)	786 (0.04%)	307 (0.01%)	295 (0.01%)	284 (0.01%)	20 (0.00%)
Injectable	254 (0.01%)	658 (0.03%)	250 (0.01%)	244 (0.01%)	215 (0.01%)	8 (0.00%)
Oral	62 (0.00%)	137 (0.01%)	63 (0.00%)	53 (0.00%)	70 (0.00%)	12 (0.00%)
Any Doxylamine succinate/Pyridoxine HCL	8 (0.00%)	115 (0.01%)	16 (0.00%)	42 (0.00%)	82 (0.00%)	0 (0.00%)
Oral	8 (0.00%)	115 (0.01%)	16 (0.00%)	42 (0.00%)	82 (0.00%)	0 (0.00%)
Any Granisetron	219 (0.01%)	513 (0.02%)	187 (0.01%)	203 (0.01%)	226 (0.01%)	21 (0.00%)
Injectable	189 (0.01%)	445 (0.02%)	149 (0.01%)	176 (0.01%)	193 (0.01%)	13 (0.00%)
Oral	35 (0.00%)	69 (0.00%)	33 (0.00%)	29 (0.00%)	33 (0.00%)	8 (0.00%)
Transdermal	7 (0.00%)	20 (0.00%)	8 (0.00%)	9 (0.00%)	11 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	7,522 (0.36%)	19,662 (0.94%)	7,772 (0.37%)	7,747 (0.37%)	8,027 (0.38%)	884 (0.04%)
Injectable	2,686 (0.13%)	8,751 (0.42%)	2,980 (0.14%)	3,008 (0.14%)	3,111 (0.15%)	31 (0.00%)
Oral	5,076 (0.24%)	11,748 (0.56%)	5,041 (0.24%)	4,982 (0.24%)	5,135 (0.24%)	823 (0.04%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	25,157 (1.20%)	74,774 (3.56%)	27,126 (1.29%)	28,450 (1.35%)	30,667 (1.46%)	1,880 (0.09%)
Injectable	14,632 (0.70%)	44,475 (2.12%)	15,742 (0.75%)	16,088 (0.77%)	16,961 (0.81%)	540 (0.03%)
Oral	12,369 (0.59%)	37,284 (1.77%)	13,435 (0.64%)	14,507 (0.69%)	16,089 (0.77%)	1,212 (0.06%)
Palonosetron	224 (0.01%)	453 (0.02%)	215 (0.01%)	239 (0.01%)	243 (0.01%)	42 (0.00%)
Injectable	224 (0.01%)	453 (0.02%)	215 (0.01%)	239 (0.01%)	243 (0.01%)	42 (0.00%)
Any Prochlorperazine	3,852 (0.18%)	10,086 (0.48%)	3,793 (0.18%)	3,867 (0.18%)	3,778 (0.18%)	220 (0.01%)
Injectable	701 (0.03%)	2,056 (0.10%)	706 (0.03%)	721 (0.03%)	723 (0.03%)	9 (0.00%)
Oral	2,698 (0.13%)	6,988 (0.33%)	2,679 (0.13%)	2,734 (0.13%)	2,643 (0.13%)	179 (0.01%)
Rectal	592 (0.03%)	1,582 (0.08%)	579 (0.03%)	569 (0.03%)	571 (0.03%)	22 (0.00%)
Any Promethazine HCL	34,690 (1.65%)	86,363 (4.11%)	35,388 (1.68%)	35,185 (1.67%)	35,574 (1.69%)	4,141 (0.20%)
Injectable	6,977 (0.33%)	19,247 (0.92%)	7,297 (0.35%)	7,385 (0.35%)	7,426 (0.35%)	570 (0.03%)
Oral	27,525 (1.31%)	68,957 (3.28%)	28,047 (1.33%)	27,808 (1.32%)	28,334 (1.35%)	3,127 (0.15%)
Rectal	3,744 (0.18%)	10,250 (0.49%)	3,721 (0.18%)	3,651 (0.17%)	3,595 (0.17%)	67 (0.00%)

[1]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

[2]Trimester time periods in the non-pregnant cohort are determined by the corresponding trimester period in each woman's matched pregnant comparator.

Table 3a. Pregnancy Episodes with Antiemetic Use in Any Trimester among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Year

	2001	2002	2003	2004	2005	2006	2007
Total Unique Episodes	**41,747**	**62,183**	**62,160**	**61,431**	**64,428**	**67,901**	**122,487**
Any Dolasetron mesylate	10 (0.02%)	31 (0.05%)	69 (0.11%)	250 (0.41%)	602 (0.93%)	915 (1.35%)	898 (0.73%)
Injectable	7 (0.02%)	22 (0.04%)	32 (0.05%)	40 (0.07%)	140 (0.22%)	194 (0.29%)	193 (0.16%)
Oral	3 (0.01%)	9 (0.01%)	37 (0.06%)	211 (0.34%)	469 (0.73%)	732 (1.08%)	720 (0.59%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Granisetron	0 (0.00%)	3 (0.00%)	2 (0.00%)	59 (0.10%)	37 (0.06%)	56 (0.08%)	58 (0.05%)
Injectable	0 (0.00%)	2 (0.00%)	1 (0.00%)	55 (0.09%)	37 (0.06%)	51 (0.08%)	47 (0.04%)
Oral	0 (0.00%)	1 (0.00%)	1 (0.00%)	4 (0.01%)	0 (0.00%)	7 (0.01%)	12 (0.01%)
Transdermal	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	1,345 (3.22%)	2,310 (3.71%)	2,676 (4.31%)	2,925 (4.76%)	3,523 (5.47%)	4,097 (6.03%)	6,873 (5.61%)
Injectable	37 (0.09%)	143 (0.23%)	166 (0.27%)	326 (0.53%)	409 (0.63%)	586 (0.86%)	1,289 (1.05%)
Oral	1,328 (3.18%)	2,220 (3.57%)	2,564 (4.12%)	2,690 (4.38%)	3,267 (5.07%)	3,717 (5.47%)	6,051 (4.94%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	399 (0.96%)	951 (1.53%)	1,541 (2.48%)	2,019 (3.29%)	2,754 (4.27%)	2,928 (4.31%)	9,188 (7.50%)
Injectable	51 (0.12%)	179 (0.29%)	224 (0.36%)	461 (0.75%)	811 (1.26%)	1,232 (1.81%)	3,566 (2.91%)
Oral	365 (0.87%)	832 (1.34%)	1,408 (2.27%)	1,723 (2.80%)	2,257 (3.50%)	2,119 (3.12%)	6,690 (5.46%)
Palonosetron	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.00%)
Injectable	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.00%)
Any Prochlorperazine	879 (2.11%)	1,192 (1.92%)	914 (1.47%)	713 (1.16%)	721 (1.12%)	787 (1.16%)	1,048 (0.86%)
Injectable	37 (0.09%)	42 (0.07%)	8 (0.01%)	13 (0.02%)	40 (0.06%)	58 (0.09%)	116 (0.09%)
Oral	596 (1.43%)	835 (1.34%)	627 (1.01%)	477 (0.78%)	508 (0.79%)	580 (0.85%)	718 (0.59%)
Rectal	318 (0.76%)	437 (0.70%)	335 (0.54%)	266 (0.43%)	222 (0.34%)	191 (0.28%)	285 (0.23%)
Any Promethazine HCL	5,775 (13.83%)	8,890 (14.30%)	9,010 (14.49%)	7,160 (11.66%)	9,885 (15.34%)	10,886 (16.03%)	17,124 (13.98%)
Injectable	159 (0.38%)	299 (0.48%)	389 (0.63%)	592 (0.96%)	951 (1.48%)	1,660 (2.44%)	2,972 (2.43%)
Oral	4,527 (10.84%)	7,140 (11.48%)	7,240 (11.65%)	5,528 (9.00%)	8,144 (12.64%)	8,841 (13.02%)	13,698 (11.18%)
Rectal	2,112 (5.06%)	3,104 (4.99%)	3,011 (4.84%)	2,260 (3.68%)	2,841 (4.41%)	2,869 (4.23%)	4,015 (3.28%)

Table 3a. Pregnancy Episodes with Antiemetic Use in Any Trimester among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Year

	2008	2009	2010	2011	2012	2013	2014
Total Unique Episodes	146,340	246,077	275,689	263,593	252,698	245,194	189,554
Any Dolasetron mesylate	150 (0.10%)	75 (0.03%)	55 (0.02%)	19 (0.01%)	19 (0.01%)	20 (0.01%)	14 (0.01%)
Injectable	26 (0.02%)	18 (0.01%)	17 (0.01%)	7 (0.00%)	2 (0.00%)	7 (0.00%)	4 (0.00%)
Oral	125 (0.09%)	59 (0.02%)	39 (0.01%)	12 (0.00%)	17 (0.01%)	13 (0.01%)	10 (0.01%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	115 (0.05%)	3,235 (1.71%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	115 (0.05%)	3,235 (1.71%)
Any Granisetron	22 (0.02%)	30 (0.01%)	20 (0.01%)	12 (0.00%)	19 (0.01%)	15 (0.01%)	10 (0.01%)
Injectable	10 (0.01%)	16 (0.01%)	8 (0.00%)	5 (0.00%)	7 (0.00%)	7 (0.00%)	8 (0.00%)
Oral	12 (0.01%)	14 (0.01%)	11 (0.00%)	5 (0.00%)	10 (0.00%)	7 (0.00%)	2 (0.00%)
Transdermal	0 (0.00%)	0 (0.00%)	1 (0.00%)	3 (0.00%)	3 (0.00%)	1 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	7,832 (5.35%)	11,498 (4.67%)	11,331 (4.11%)	9,450 (3.59%)	8,480 (3.36%)	8,204 (3.35%)	6,474 (3.42%)
Injectable	1,442 (0.99%)	2,234 (0.91%)	2,214 (0.80%)	2,108 (0.80%)	1,801 (0.71%)	1,752 (0.71%)	1,430 (0.75%)
Oral	6,895 (4.71%)	9,877 (4.01%)	9,709 (3.52%)	7,823 (2.97%)	7,094 (2.81%)	6,919 (2.82%)	5,424 (2.86%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	15,198 (10.39%)	32,737 (13.30%)	43,461 (15.76%)	47,581 (18.05%)	49,639 (19.64%)	54,144 (22.08%)	41,896 (22.10%)
Injectable	5,436 (3.71%)	9,109 (3.70%)	11,292 (4.10%)	11,510 (4.37%)	11,180 (4.42%)	11,426 (4.66%)	8,579 (4.53%)
Oral	11,614 (7.94%)	27,104 (11.01%)	36,540 (13.25%)	40,817 (15.48%)	43,309 (17.14%)	48,006 (19.58%)	37,504 (19.79%)
Palonosetron	3 (0.00%)	11 (0.00%)	10 (0.00%)	11 (0.00%)	18 (0.01%)	16 (0.01%)	11 (0.01%)
Injectable	3 (0.00%)	11 (0.00%)	10 (0.00%)	11 (0.00%)	18 (0.01%)	16 (0.01%)	11 (0.01%)
Any Prochlorperazine	1,146 (0.78%)	1,535 (0.62%)	1,693 (0.61%)	1,683 (0.64%)	1,316 (0.52%)	1,096 (0.45%)	916 (0.48%)
Injectable	139 (0.09%)	244 (0.10%)	261 (0.09%)	337 (0.13%)	60 (0.02%)	56 (0.02%)	145 (0.08%)
Oral	801 (0.55%)	1,070 (0.43%)	1,209 (0.44%)	1,172 (0.44%)	1,075 (0.43%)	908 (0.37%)	716 (0.38%)
Rectal	275 (0.19%)	292 (0.12%)	320 (0.12%)	251 (0.10%)	223 (0.09%)	160 (0.07%)	103 (0.05%)
Any Promethazine HCL	18,466 (12.62%)	25,865 (10.51%)	27,898 (10.12%)	25,421 (9.64%)	22,666 (8.97%)	21,709 (8.85%)	16,163 (8.53%)
Injectable	3,029 (2.07%)	3,738 (1.52%)	3,855 (1.40%)	3,360 (1.27%)	3,089 (1.22%)	2,834 (1.16%)	2,071 (1.09%)
Oral	15,040 (10.28%)	21,271 (8.64%)	23,151 (8.40%)	21,483 (8.15%)	19,269 (7.63%)	18,600 (7.59%)	13,933 (7.35%)
Rectal	3,847 (2.63%)	4,705 (1.91%)	4,707 (1.71%)	3,901 (1.48%)	3,262 (1.29%)	3,010 (1.23%)	2,137 (1.13%)

Table 3b. Episodes with Antiemetic Use among Matched Comparator Cohort[1] in the Mini-Sentinel Distributed Database (MSDD), by Year

	2001	2002	2003	2004	2005	2006	2007
Total Unique Episodes	**41,747**	**62,183**	**62,160**	**61,431**	**64,428**	**67,901**	**122,487**
Any Dolasetron mesylate	16 (0.04%)	34 (0.05%)	45 (0.07%)	65 (0.11%)	153 (0.24%)	177 (0.26%)	173 (0.14%)
Injectable	15 (0.04%)	32 (0.05%)	37 (0.06%)	51 (0.08%)	130 (0.20%)	146 (0.22%)	145 (0.12%)
Oral	1 (0.00%)	3 (0.00%)	9 (0.01%)	14 (0.02%)	25 (0.04%)	31 (0.05%)	33 (0.03%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Granisetron	2 (0.00%)	2 (0.00%)	4 (0.01%)	56 (0.09%)	56 (0.09%)	52 (0.08%)	70 (0.06%)
Injectable	0 (0.00%)	1 (0.00%)	2 (0.00%)	54 (0.09%)	55 (0.09%)	50 (0.07%)	64 (0.05%)
Oral	2 (0.00%)	1 (0.00%)	2 (0.00%)	2 (0.00%)	2 (0.00%)	3 (0.00%)	7 (0.01%)
Transdermal	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	337 (0.81%)	518 (0.83%)	665 (1.07%)	703 (1.14%)	877 (1.36%)	898 (1.32%)	1,620 (1.32%)
Injectable	24 (0.06%)	88 (0.14%)	108 (0.17%)	217 (0.35%)	292 (0.45%)	351 (0.52%)	738 (0.60%)
Oral	315 (0.75%)	438 (0.70%)	567 (0.91%)	505 (0.82%)	624 (0.97%)	595 (0.88%)	964 (0.79%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	60 (0.14%)	135 (0.22%)	231 (0.37%)	430 (0.70%)	782 (1.21%)	952 (1.40%)	2,573 (2.10%)
Injectable	30 (0.07%)	94 (0.15%)	149 (0.24%)	339 (0.55%)	663 (1.03%)	839 (1.24%)	2,152 (1.76%)
Oral	33 (0.08%)	43 (0.07%)	94 (0.15%)	107 (0.17%)	155 (0.24%)	147 (0.22%)	536 (0.44%)
Palonosetron	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.00%)	3 (0.00%)	27 (0.02%)
Injectable	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	3 (0.00%)	3 (0.00%)	27 (0.02%)
Any Prochlorperazine	376 (0.90%)	511 (0.82%)	473 (0.76%)	373 (0.61%)	389 (0.60%)	458 (0.67%)	739 (0.60%)
Injectable	29 (0.07%)	28 (0.05%)	8 (0.01%)	10 (0.02%)	42 (0.07%)	85 (0.13%)	168 (0.14%)
Oral	284 (0.68%)	377 (0.61%)	359 (0.58%)	284 (0.46%)	278 (0.43%)	303 (0.45%)	465 (0.38%)
Rectal	85 (0.20%)	134 (0.22%)	135 (0.22%)	90 (0.15%)	87 (0.14%)	97 (0.14%)	151 (0.12%)
Any Promethazine HCL	2,107 (5.05%)	3,276 (5.27%)	3,531 (5.68%)	2,854 (4.65%)	3,956 (6.14%)	4,030 (5.94%)	6,339 (5.18%)
Injectable	145 (0.35%)	301 (0.48%)	325 (0.52%)	515 (0.84%)	709 (1.10%)	979 (1.44%)	1,848 (1.51%)
Oral	1,741 (4.17%)	2,789 (4.49%)	2,982 (4.80%)	2,296 (3.74%)	3,272 (5.08%)	3,170 (4.67%)	4,748 (3.88%)
Rectal	470 (1.13%)	590 (0.95%)	655 (1.05%)	426 (0.69%)	669 (1.04%)	627 (0.92%)	884 (0.72%)

[1]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

Table 3b. Episodes with Antiemetic Use among Matched Comparator Cohort[1] in the Mini-Sentinel Distributed Database (MSDD), by Year

	2008	2009	2010	2011	2012	2013	2014
Total Unique Episodes	146,340	246,077	275,689	263,593	252,698	245,194	189,554
Any Dolasetron mesylate	39 (0.03%)	24 (0.01%)	29 (0.01%)	20 (0.01%)	5 (0.00%)	4 (0.00%)	2 (0.00%)
Injectable	32 (0.02%)	22 (0.01%)	26 (0.01%)	12 (0.00%)	5 (0.00%)	4 (0.00%)	1 (0.00%)
Oral	7 (0.00%)	2 (0.00%)	3 (0.00%)	8 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	6 (0.00%)	109 (0.06%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	6 (0.00%)	109 (0.06%)
Any Granisetron	32 (0.02%)	43 (0.02%)	41 (0.01%)	34 (0.01%)	55 (0.02%)	39 (0.02%)	27 (0.01%)
Injectable	26 (0.02%)	36 (0.01%)	34 (0.01%)	27 (0.01%)	46 (0.02%)	28 (0.01%)	22 (0.01%)
Oral	7 (0.00%)	11 (0.00%)	12 (0.00%)	5 (0.00%)	4 (0.00%)	7 (0.00%)	4 (0.00%)
Transdermal	0 (0.00%)	1 (0.00%)	0 (0.00%)	4 (0.00%)	6 (0.00%)	7 (0.00%)	2 (0.00%)
Any Metoclopramide HCL	1,844 (1.26%)	2,671 (1.09%)	2,541 (0.92%)	1,998 (0.76%)	1,848 (0.73%)	1,773 (0.72%)	1,369 (0.72%)
Injectable	803 (0.55%)	1,202 (0.49%)	1,272 (0.46%)	1,034 (0.39%)	969 (0.38%)	915 (0.37%)	738 (0.39%)
Oral	1,134 (0.77%)	1,596 (0.65%)	1,378 (0.50%)	1,056 (0.40%)	957 (0.38%)	917 (0.37%)	702 (0.37%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	4,111 (2.81%)	7,898 (3.21%)	10,292 (3.73%)	11,312 (4.29%)	11,772 (4.66%)	13,213 (5.39%)	11,013 (5.81%)
Injectable	3,257 (2.23%)	5,596 (2.27%)	6,805 (2.47%)	6,903 (2.62%)	6,499 (2.57%)	6,500 (2.65%)	4,649 (2.45%)
Oral	1,122 (0.77%)	2,921 (1.19%)	4,415 (1.60%)	5,499 (2.09%)	6,482 (2.57%)	8,159 (3.33%)	7,571 (3.99%)
Palonosetron	28 (0.02%)	72 (0.03%)	93 (0.03%)	75 (0.03%)	67 (0.03%)	50 (0.02%)	35 (0.02%)
Injectable	28 (0.02%)	72 (0.03%)	93 (0.03%)	75 (0.03%)	67 (0.03%)	50 (0.02%)	35 (0.02%)
Any Prochlorperazine	829 (0.57%)	1,227 (0.50%)	1,362 (0.49%)	1,305 (0.50%)	758 (0.30%)	685 (0.28%)	601 (0.32%)
Injectable	207 (0.14%)	328 (0.13%)	391 (0.14%)	439 (0.17%)	88 (0.03%)	70 (0.03%)	163 (0.09%)
Oral	545 (0.37%)	803 (0.33%)	873 (0.32%)	828 (0.31%)	599 (0.24%)	561 (0.23%)	429 (0.23%)
Rectal	135 (0.09%)	158 (0.06%)	179 (0.06%)	117 (0.04%)	95 (0.04%)	71 (0.03%)	48 (0.03%)
Any Promethazine HCL	7,033 (4.81%)	10,068 (4.09%)	10,957 (3.97%)	9,730 (3.69%)	8,798 (3.48%)	7,948 (3.24%)	5,736 (3.03%)
Injectable	1,953 (1.33%)	2,580 (1.05%)	2,604 (0.94%)	2,230 (0.85%)	2,059 (0.81%)	1,705 (0.70%)	1,294 (0.68%)
Oral	5,370 (3.67%)	7,755 (3.15%)	8,623 (3.13%)	7,818 (2.97%)	7,165 (2.84%)	6,477 (2.64%)	4,751 (2.51%)
Rectal	897 (0.61%)	1,191 (0.48%)	1,161 (0.42%)	926 (0.35%)	742 (0.29%)	610 (0.25%)	402 (0.21%)

[1]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

Table 4a. Pregnancy Episodes with Antiemetic Use in the First Trimester among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Year

	2001	2002	2003	2004	2005	2006	2007
Total Unique Episodes	41,747	62,183	62,160	61,431	64,428	67,901	122,487
Any Dolasetron mesylate	4 (0.01%)	11 (0.02%)	38 (0.06%)	140 (0.23%)	405 (0.63%)	640 (0.94%)	682 (0.56%)
Injectable	3 (0.01%)	10 (0.02%)	16 (0.03%)	16 (0.03%)	59 (0.09%)	107 (0.16%)	140 (0.11%)
Oral	1 (0.00%)	1 (0.00%)	22 (0.04%)	125 (0.20%)	350 (0.54%)	539 (0.79%)	555 (0.45%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Granisetron	0 (0.00%)	3 (0.00%)	1 (0.00%)	13 (0.02%)	22 (0.03%)	19 (0.03%)	33 (0.03%)
Injectable	0 (0.00%)	2 (0.00%)	0 (0.00%)	12 (0.02%)	22 (0.03%)	14 (0.02%)	25 (0.02%)
Oral	0 (0.00%)	1 (0.00%)	1 (0.00%)	1 (0.00%)	0 (0.00%)	5 (0.01%)	9 (0.01%)
Transdermal	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	836 (2.00%)	1,378 (2.22%)	1,626 (2.62%)	1,775 (2.89%)	2,217 (3.44%)	2,469 (3.64%)	4,309 (3.52%)
Injectable	22 (0.05%)	78 (0.13%)	84 (0.14%)	129 (0.21%)	183 (0.28%)	239 (0.35%)	528 (0.43%)
Oral	827 (1.98%)	1,331 (2.14%)	1,575 (2.53%)	1,698 (2.76%)	2,111 (3.28%)	2,330 (3.43%)	4,029 (3.29%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	275 (0.66%)	623 (1.00%)	909 (1.46%)	1,232 (2.01%)	1,681 (2.61%)	1,676 (2.47%)	5,645 (4.61%)
Injectable	28 (0.07%)	90 (0.14%)	92 (0.15%)	187 (0.30%)	349 (0.54%)	534 (0.79%)	1,298 (1.06%)
Oral	259 (0.62%)	574 (0.92%)	867 (1.39%)	1,131 (1.84%)	1,491 (2.31%)	1,354 (1.99%)	4,897 (4.00%)
Palonosetron	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)
Injectable	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)
Any Prochlorperazine	564 (1.35%)	775 (1.25%)	602 (0.97%)	450 (0.73%)	481 (0.75%)	496 (0.73%)	691 (0.56%)
Injectable	24 (0.06%)	23 (0.04%)	5 (0.01%)	6 (0.01%)	15 (0.02%)	31 (0.05%)	63 (0.05%)
Oral	366 (0.88%)	514 (0.83%)	396 (0.64%)	285 (0.46%)	340 (0.53%)	356 (0.52%)	470 (0.38%)
Rectal	229 (0.55%)	322 (0.52%)	243 (0.39%)	186 (0.30%)	154 (0.24%)	133 (0.20%)	200 (0.16%)
Any Promethazine HCL	3,567 (8.54%)	5,567 (8.95%)	5,646 (9.08%)	4,448 (7.24%)	6,278 (9.74%)	6,770 (9.97%)	11,125 (9.08%)
Injectable	72 (0.17%)	127 (0.20%)	172 (0.28%)	204 (0.33%)	370 (0.57%)	584 (0.86%)	1,189 (0.97%)
Oral	2,716 (6.51%)	4,341 (6.98%)	4,418 (7.11%)	3,368 (5.48%)	5,102 (7.92%)	5,472 (8.06%)	9,112 (7.44%)
Rectal	1,314 (3.15%)	1,942 (3.12%)	1,868 (3.01%)	1,510 (2.46%)	1,800 (2.79%)	1,873 (2.76%)	2,625 (2.14%)

Table 4a. Pregnancy Episodes with Antiemetic Use in the First Trimester among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Year

	2008	2009	2010	2011	2012	2013	2014
Total Unique Episodes	146,340	246,077	275,689	263,593	252,698	245,194	189,554
Any Dolasetron mesylate	94 (0.06%)	54 (0.02%)	38 (0.01%)	11 (0.00%)	14 (0.01%)	10 (0.00%)	6 (0.00%)
Injectable	9 (0.01%)	8 (0.00%)	8 (0.00%)	3 (0.00%)	0 (0.00%)	1 (0.00%)	2 (0.00%)
Oral	86 (0.06%)	48 (0.02%)	31 (0.01%)	8 (0.00%)	14 (0.01%)	9 (0.00%)	4 (0.00%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	32 (0.01%)	2,444 (1.29%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	32 (0.01%)	2,444 (1.29%)
Any Granisetron	14 (0.01%)	15 (0.01%)	12 (0.00%)	7 (0.00%)	9 (0.00%)	7 (0.00%)	5 (0.00%)
Injectable	5 (0.00%)	4 (0.00%)	3 (0.00%)	3 (0.00%)	1 (0.00%)	3 (0.00%)	3 (0.00%)
Oral	9 (0.01%)	11 (0.00%)	8 (0.00%)	2 (0.00%)	8 (0.00%)	4 (0.00%)	2 (0.00%)
Transdermal	0 (0.00%)	0 (0.00%)	1 (0.00%)	2 (0.00%)	1 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	4,963 (3.39%)	7,283 (2.96%)	7,153 (2.59%)	5,847 (2.22%)	5,236 (2.07%)	4,932 (2.01%)	3,873 (2.04%)
Injectable	580 (0.40%)	744 (0.30%)	744 (0.27%)	671 (0.25%)	646 (0.26%)	647 (0.26%)	544 (0.29%)
Oral	4,644 (3.17%)	6,850 (2.78%)	6,707 (2.43%)	5,429 (2.06%)	4,799 (1.90%)	4,517 (1.84%)	3,532 (1.86%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	9,894 (6.76%)	22,587 (9.18%)	30,585 (11.09%)	34,395 (13.05%)	36,653 (14.50%)	40,082 (16.35%)	31,215 (16.47%)
Injectable	2,104 (1.44%)	3,381 (1.37%)	4,411 (1.60%)	4,642 (1.76%)	4,702 (1.86%)	4,791 (1.95%)	3,814 (2.01%)
Oral	8,691 (5.94%)	20,905 (8.50%)	28,339 (10.28%)	32,006 (12.14%)	34,260 (13.56%)	37,727 (15.39%)	29,481 (15.55%)
Palonosetron	1 (0.00%)	1 (0.00%)	2 (0.00%)	1 (0.00%)	3 (0.00%)	3 (0.00%)	3 (0.00%)
Injectable	1 (0.00%)	1 (0.00%)	2 (0.00%)	1 (0.00%)	3 (0.00%)	3 (0.00%)	3 (0.00%)
Any Prochlorperazine	717 (0.49%)	927 (0.38%)	1,036 (0.38%)	1,007 (0.38%)	827 (0.33%)	673 (0.27%)	545 (0.29%)
Injectable	71 (0.05%)	100 (0.04%)	110 (0.04%)	153 (0.06%)	41 (0.02%)	9 (0.00%)	64 (0.03%)
Oral	495 (0.34%)	662 (0.27%)	754 (0.27%)	711 (0.27%)	659 (0.26%)	567 (0.23%)	441 (0.23%)
Rectal	185 (0.13%)	204 (0.08%)	223 (0.08%)	175 (0.07%)	155 (0.06%)	107 (0.04%)	65 (0.03%)
Any Promethazine HCL	12,060 (8.24%)	17,226 (7.00%)	18,626 (6.76%)	17,197 (6.52%)	15,419 (6.10%)	14,779 (6.03%)	10,844 (5.72%)
Injectable	1,160 (0.79%)	1,218 (0.49%)	1,219 (0.44%)	1,045 (0.40%)	953 (0.38%)	917 (0.37%)	660 (0.35%)
Oral	10,144 (6.93%)	14,795 (6.01%)	16,254 (5.90%)	15,255 (5.79%)	13,725 (5.43%)	13,243 (5.40%)	9,772 (5.16%)
Rectal	2,574 (1.76%)	3,124 (1.27%)	3,065 (1.11%)	2,571 (0.98%)	2,153 (0.85%)	1,935 (0.79%)	1,383 (0.73%)

Table 4b. Episodes with Antiemetic Use in Time Corresponding to First Trimester[1] among Matched Comparator Cohort[2] in the Mini-Sentinel Distributed Database (MSDD), by Year

	2001	2002	2003	2004	2005	2006	2007
Total Unique Episodes	**41,747**	**62,183**	**62,160**	**61,431**	**64,428**	**67,901**	**122,487**
Any Dolasetron mesylate	7 (0.02%)	12 (0.02%)	9 (0.01%)	20 (0.03%)	59 (0.09%)	58 (0.09%)	88 (0.07%)
Injectable	6 (0.01%)	12 (0.02%)	9 (0.01%)	17 (0.03%)	49 (0.08%)	44 (0.06%)	69 (0.06%)
Oral	1 (0.00%)	1 (0.00%)	0 (0.00%)	3 (0.00%)	10 (0.02%)	14 (0.02%)	24 (0.02%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Granisetron	1 (0.00%)	2 (0.00%)	0 (0.00%)	16 (0.03%)	20 (0.03%)	17 (0.03%)	28 (0.02%)
Injectable	0 (0.00%)	1 (0.00%)	0 (0.00%)	16 (0.03%)	19 (0.03%)	16 (0.02%)	26 (0.02%)
Oral	1 (0.00%)	1 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)	1 (0.00%)	2 (0.00%)
Transdermal	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	165 (0.40%)	206 (0.33%)	298 (0.48%)	290 (0.47%)	367 (0.57%)	349 (0.51%)	614 (0.50%)
Injectable	7 (0.02%)	28 (0.05%)	39 (0.06%)	66 (0.11%)	103 (0.16%)	119 (0.18%)	256 (0.21%)
Oral	158 (0.38%)	181 (0.29%)	261 (0.42%)	228 (0.37%)	276 (0.43%)	243 (0.36%)	380 (0.31%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	17 (0.04%)	37 (0.06%)	82 (0.13%)	138 (0.22%)	253 (0.39%)	323 (0.48%)	815 (0.67%)
Injectable	6 (0.01%)	24 (0.04%)	51 (0.08%)	108 (0.18%)	200 (0.31%)	270 (0.40%)	665 (0.54%)
Oral	11 (0.03%)	13 (0.02%)	33 (0.05%)	34 (0.06%)	63 (0.10%)	68 (0.10%)	177 (0.14%)
Palonosetron	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)	2 (0.00%)	8 (0.01%)
Injectable	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)	2 (0.00%)	8 (0.01%)
Any Prochlorperazine	137 (0.33%)	200 (0.32%)	188 (0.30%)	136 (0.22%)	148 (0.23%)	144 (0.21%)	252 (0.21%)
Injectable	13 (0.03%)	15 (0.02%)	2 (0.00%)	4 (0.01%)	13 (0.02%)	25 (0.04%)	51 (0.04%)
Oral	101 (0.24%)	148 (0.24%)	138 (0.22%)	99 (0.16%)	109 (0.17%)	100 (0.15%)	159 (0.13%)
Rectal	30 (0.07%)	45 (0.07%)	56 (0.09%)	37 (0.06%)	32 (0.05%)	31 (0.05%)	58 (0.05%)
Any Promethazine HCL	890 (2.13%)	1,383 (2.22%)	1,468 (2.36%)	1,232 (2.01%)	1,689 (2.62%)	1,649 (2.43%)	2,606 (2.13%)
Injectable	49 (0.12%)	124 (0.20%)	102 (0.16%)	178 (0.29%)	274 (0.43%)	314 (0.46%)	702 (0.57%)
Oral	736 (1.76%)	1,173 (1.89%)	1,230 (1.98%)	1,005 (1.64%)	1,376 (2.14%)	1,301 (1.92%)	1,915 (1.56%)
Rectal	189 (0.45%)	218 (0.35%)	248 (0.40%)	152 (0.25%)	231 (0.36%)	230 (0.34%)	338 (0.28%)

[1]Trimester time periods in the non-pregnant cohort are determined by the corresponding trimester period in each woman's matched pregnant comparator.

[2]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

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Table 4b. Episodes with Antiemetic Use in Time Corresponding to First Trimester[1] among Matched Comparator Cohort[2] in the Mini-Sentinel Distributed Database (MSDD), by Year

	2008	2009	2010	2011	2012	2013	2014
Total Unique Episodes	146,340	246,077	275,689	263,593	252,698	245,194	189,554
Any Dolasetron mesylate	20 (0.01%)	9 (0.00%)	10 (0.00%)	12 (0.00%)	3 (0.00%)	0 (0.00%)	0 (0.00%)
Injectable	18 (0.01%)	8 (0.00%)	9 (0.00%)	6 (0.00%)	3 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	2 (0.00%)	1 (0.00%)	1 (0.00%)	6 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Doxylamine succinate/Pyridoxine HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	16 (0.01%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	16 (0.01%)
Any Granisetron	12 (0.01%)	18 (0.01%)	17 (0.01%)	9 (0.00%)	22 (0.01%)	16 (0.01%)	9 (0.00%)
Injectable	10 (0.01%)	13 (0.01%)	11 (0.00%)	6 (0.00%)	14 (0.01%)	11 (0.00%)	6 (0.00%)
Oral	3 (0.00%)	6 (0.00%)	6 (0.00%)	2 (0.00%)	4 (0.00%)	4 (0.00%)	2 (0.00%)
Transdermal	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (0.00%)	4 (0.00%)	2 (0.00%)	1 (0.00%)
Any Metoclopramide HCL	701 (0.48%)	1,057 (0.43%)	1,023 (0.37%)	805 (0.31%)	703 (0.28%)	695 (0.28%)	499 (0.26%)
Injectable	268 (0.18%)	383 (0.16%)	451 (0.16%)	369 (0.14%)	329 (0.13%)	315 (0.13%)	247 (0.13%)
Oral	465 (0.32%)	711 (0.29%)	603 (0.22%)	467 (0.18%)	397 (0.16%)	396 (0.16%)	275 (0.15%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	1,411 (0.96%)	2,790 (1.13%)	3,652 (1.32%)	4,210 (1.60%)	4,411 (1.75%)	4,913 (2.00%)	4,074 (2.15%)
Injectable	1,091 (0.75%)	1,961 (0.80%)	2,380 (0.86%)	2,512 (0.95%)	2,360 (0.93%)	2,385 (0.97%)	1,729 (0.91%)
Oral	383 (0.26%)	994 (0.40%)	1,553 (0.56%)	2,019 (0.77%)	2,420 (0.96%)	2,960 (1.21%)	2,707 (1.43%)
Palonosetron	15 (0.01%)	33 (0.01%)	43 (0.02%)	39 (0.01%)	39 (0.02%)	22 (0.01%)	13 (0.01%)
Injectable	15 (0.01%)	33 (0.01%)	43 (0.02%)	39 (0.01%)	39 (0.02%)	22 (0.01%)	13 (0.01%)
Any Prochlorperazine	308 (0.21%)	472 (0.19%)	508 (0.18%)	523 (0.20%)	295 (0.12%)	251 (0.10%)	231 (0.12%)
Injectable	69 (0.05%)	103 (0.04%)	124 (0.04%)	178 (0.07%)	54 (0.02%)	12 (0.00%)	43 (0.02%)
Oral	206 (0.14%)	328 (0.13%)	346 (0.13%)	331 (0.13%)	216 (0.09%)	218 (0.09%)	180 (0.09%)
Rectal	53 (0.04%)	61 (0.02%)	57 (0.02%)	44 (0.02%)	35 (0.01%)	25 (0.01%)	15 (0.01%)
Any Promethazine HCL	2,808 (1.92%)	4,040 (1.64%)	4,411 (1.60%)	3,919 (1.49%)	3,603 (1.43%)	3,305 (1.35%)	2,385 (1.26%)
Injectable	757 (0.52%)	965 (0.39%)	1,009 (0.37%)	878 (0.33%)	789 (0.31%)	642 (0.26%)	514 (0.27%)
Oral	2,121 (1.45%)	3,076 (1.25%)	3,427 (1.24%)	3,121 (1.18%)	2,920 (1.16%)	2,694 (1.10%)	1,952 (1.03%)
Rectal	297 (0.20%)	462 (0.19%)	415 (0.15%)	304 (0.12%)	268 (0.11%)	239 (0.10%)	130 (0.07%)

[1]Trimester time periods in the non-pregnant cohort are determined by the corresponding trimester period in each woman's matched pregnant comparator.

[2]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

Table 5a. Pregnancy Episodes with Antiemetic Use among Pregancies with Live-Birth Deliveries in the Mini-Sentinel Distributed Database (MSDD), by Maternal Age

	< 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-54 years
Total Unique Episodes	126,298	291,136	545,817	679,811	364,461	84,823	9,136
Any Dolasetron mesylate	163 (0.13%)	521 (0.18%)	900 (0.16%)	908 (0.13%)	521 (0.14%)	100 (0.12%)	14 (0.15%)
Injectable	74 (0.06%)	179 (0.06%)	195 (0.04%)	150 (0.02%)	87 (0.02%)	20 (0.02%)	4 (0.04%)
Oral	93 (0.07%)	344 (0.12%)	719 (0.13%)	770 (0.11%)	439 (0.12%)	81 (0.10%)	10 (0.11%)
Any Doxylamine succinate/Pyridoxine HCL	201 (0.16%)	487 (0.17%)	873 (0.16%)	1,131 (0.17%)	531 (0.15%)	115 (0.14%)	12 (0.13%)
Oral	201 (0.16%)	487 (0.17%)	873 (0.16%)	1,131 (0.17%)	531 (0.15%)	115 (0.14%)	12 (0.13%)
Any Granisetron	35 (0.03%)	92 (0.03%)	92 (0.02%)	74 (0.01%)	38 (0.01%)	11 (0.01%)	1 (0.01%)
Injectable	32 (0.03%)	83 (0.03%)	66 (0.01%)	44 (0.01%)	22 (0.01%)	7 (0.01%)	0 (0.00%)
Oral	4 (0.00%)	10 (0.00%)	26 (0.00%)	28 (0.00%)	13 (0.00%)	4 (0.00%)	1 (0.01%)
Transdermal	0 (0.00%)	0 (0.00%)	2 (0.00%)	3 (0.00%)	3 (0.00%)	0 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	7,405 (5.86%)	18,107 (6.22%)	24,365 (4.46%)	23,342 (3.43%)	11,276 (3.09%)	2,299 (2.71%)	224 (2.45%)
Injectable	1,243 (0.98%)	3,295 (1.13%)	4,381 (0.80%)	4,337 (0.64%)	2,162 (0.59%)	461 (0.54%)	58 (0.63%)
Oral	6,596 (5.22%)	15,894 (5.46%)	21,303 (3.90%)	20,094 (2.96%)	9,588 (2.63%)	1,928 (2.27%)	175 (1.92%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	14,661 (11.61%)	44,542 (15.30%)	87,616 (16.05%)	99,684 (14.66%)	47,370 (13.00%)	9,735 (11.48%)	828 (9.06%)
Injectable	6,628 (5.25%)	16,883 (5.80%)	20,599 (3.77%)	19,496 (2.87%)	9,146 (2.51%)	2,068 (2.44%)	236 (2.58%)
Oral	9,910 (7.85%)	33,591 (11.54%)	76,140 (13.95%)	89,289 (13.13%)	42,195 (11.58%)	8,494 (10.01%)	669 (7.32%)
Palonosetron	0 (0.00%)	4 (0.00%)	8 (0.00%)	26 (0.00%)	20 (0.01%)	16 (0.02%)	9 (0.10%)
Injectable	0 (0.00%)	4 (0.00%)	8 (0.00%)	26 (0.00%)	20 (0.01%)	16 (0.02%)	9 (0.10%)
Any Prochlorperazine	1,267 (1.00%)	3,419 (1.17%)	4,530 (0.83%)	4,067 (0.60%)	1,920 (0.53%)	382 (0.45%)	54 (0.59%)
Injectable	111 (0.09%)	380 (0.13%)	467 (0.09%)	393 (0.06%)	168 (0.05%)	35 (0.04%)	2 (0.02%)
Oral	1,011 (0.80%)	2,603 (0.89%)	3,243 (0.59%)	2,829 (0.42%)	1,288 (0.35%)	278 (0.33%)	40 (0.44%)
Rectal	200 (0.16%)	644 (0.22%)	1,108 (0.20%)	1,067 (0.16%)	556 (0.15%)	89 (0.10%)	14 (0.15%)
Any Promethazine HCL	28,373 (22.47%)	60,836 (20.90%)	62,264 (11.41%)	49,466 (7.28%)	21,441 (5.88%)	4,165 (4.91%)	373 (4.08%)
Injectable	3,685 (2.92%)	8,295 (2.85%)	7,928 (1.45%)	5,943 (0.87%)	2,559 (0.70%)	520 (0.61%)	68 (0.74%)
Oral	25,083 (19.86%)	52,669 (18.09%)	51,172 (9.38%)	39,087 (5.75%)	16,467 (4.52%)	3,113 (3.67%)	274 (3.00%)
Rectal	4,819 (3.82%)	11,499 (3.95%)	12,819 (2.35%)	10,664 (1.57%)	4,904 (1.35%)	999 (1.18%)	77 (0.84%)

Table 5b. Episodes with Antiemetic Use among Matched Comparator Cohort[1] in the Mini-Sentinel Distributed Database (MSDD), by Age

	< 20 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years	45-54 years
Total Unique Episodes	126,298	290,998	545,771	679,931	364,525	84,812	9,147
Any Dolasetron mesylate	45 (0.04%)	119 (0.04%)	211 (0.04%)	242 (0.04%)	143 (0.04%)	26 (0.03%)	0 (0.00%)
Injectable	39 (0.03%)	112 (0.04%)	181 (0.03%)	202 (0.03%)	109 (0.03%)	15 (0.02%)	0 (0.00%)
Oral	6 (0.00%)	8 (0.00%)	34 (0.01%)	41 (0.01%)	37 (0.01%)	11 (0.01%)	0 (0.00%)
Any Doxylamine succinate/Pyridoxine HCL	7 (0.01%)	15 (0.01%)	34 (0.01%)	43 (0.01%)	16 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	7 (0.01%)	15 (0.01%)	34 (0.01%)	43 (0.01%)	16 (0.00%)	0 (0.00%)	0 (0.00%)
Any Granisetron	42 (0.03%)	103 (0.04%)	99 (0.02%)	126 (0.02%)	98 (0.03%)	37 (0.04%)	8 (0.09%)
Injectable	38 (0.03%)	96 (0.03%)	88 (0.02%)	106 (0.02%)	80 (0.02%)	29 (0.03%)	8 (0.09%)
Oral	8 (0.01%)	7 (0.00%)	6 (0.00%)	21 (0.00%)	17 (0.00%)	10 (0.01%)	0 (0.00%)
Transdermal	0 (0.00%)	0 (0.00%)	6 (0.00%)	4 (0.00%)	9 (0.00%)	1 (0.00%)	0 (0.00%)
Any Metoclopramide HCL	1,022 (0.81%)	3,210 (1.10%)	4,940 (0.91%)	6,137 (0.90%)	3,445 (0.95%)	823 (0.97%)	85 (0.93%)
Injectable	348 (0.28%)	1,307 (0.45%)	2,265 (0.42%)	2,853 (0.42%)	1,599 (0.44%)	353 (0.42%)	26 (0.28%)
Oral	706 (0.56%)	2,074 (0.71%)	2,887 (0.53%)	3,540 (0.52%)	1,986 (0.54%)	493 (0.58%)	62 (0.68%)
Any Netupitant/Palonosetron HCL	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Oral	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)
Any Ondansetron	3,767 (2.98%)	10,641 (3.66%)	18,938 (3.47%)	25,183 (3.70%)	13,061 (3.58%)	2,871 (3.39%)	313 (3.42%)
Injectable	2,687 (2.13%)	7,342 (2.52%)	11,140 (2.04%)	13,866 (2.04%)	7,557 (2.07%)	1,720 (2.03%)	163 (1.78%)
Oral	1,350 (1.07%)	4,082 (1.40%)	9,535 (1.75%)	13,900 (2.04%)	6,793 (1.86%)	1,445 (1.70%)	179 (1.96%)
Palonosetron	3 (0.00%)	12 (0.00%)	64 (0.01%)	146 (0.02%)	172 (0.05%)	46 (0.05%)	10 (0.11%)
Injectable	3 (0.00%)	12 (0.00%)	64 (0.01%)	146 (0.02%)	172 (0.05%)	46 (0.05%)	10 (0.11%)
Any Prochlorperazine	393 (0.31%)	1,365 (0.47%)	2,640 (0.48%)	3,277 (0.48%)	1,899 (0.52%)	444 (0.52%)	68 (0.74%)
Injectable	73 (0.06%)	311 (0.11%)	538 (0.10%)	692 (0.10%)	376 (0.10%)	58 (0.07%)	8 (0.09%)
Oral	280 (0.22%)	954 (0.33%)	1,824 (0.33%)	2,223 (0.33%)	1,317 (0.36%)	339 (0.40%)	51 (0.56%)
Rectal	60 (0.05%)	198 (0.07%)	384 (0.07%)	530 (0.08%)	324 (0.09%)	76 (0.09%)	10 (0.11%)
Any Promethazine HCL	9,040 (7.16%)	19,679 (6.76%)	21,806 (4.00%)	22,150 (3.26%)	11,009 (3.02%)	2,390 (2.82%)	289 (3.16%)
Injectable	1,321 (1.05%)	3,827 (1.32%)	5,068 (0.93%)	5,361 (0.79%)	2,962 (0.81%)	635 (0.75%)	73 (0.80%)
Oral	7,718 (6.11%)	16,624 (5.71%)	17,351 (3.18%)	17,084 (2.51%)	8,195 (2.25%)	1,768 (2.08%)	217 (2.37%)
Rectal	1,110 (0.88%)	2,300 (0.79%)	2,562 (0.47%)	2,594 (0.38%)	1,321 (0.36%)	323 (0.38%)	40 (0.44%)

[1]Women in matched comparator cohort may have been pregnant at some point during the request period. Women were eligible for the "non-pregnant" cohort if they had no evidence of a live-born delivery during the time period of their pregnant comparator's pregnancy.

Appendix A. Date Ranges of Available Data Contributed by Each Data Partner in the Mini-Sentinel Distributed Database as of Request Distribution Date (November 10, 2015)

Data Partner ID	Data Contribution Period
DP01	2009 - 2014
DP02	2007 - 2014
DP03	2005 - 2014
DP04	2001 - 2014
DP05	2001 - 2014
DP06	2001 - 2014
DP07	2001 - 2012
DP08	2008 - 2014
DP09	2001 - 2014
DP10	2001 - 2014
DP11	2006 - 2014
DP12	2001 - 2014
DP13	2001 - 2014
DP14	2009 - 2014
DP15	2001 - 2014

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

Generic Name
ONDANSETRON
DOXYLAMINE SUCCINATE/PYRIDOXINE HCL
METOCLOPRAMIDE HCL
PROMETHAZINE HCL
PROCHLORPERAZINE
DOLASETRON MESYLATE
GRANISETRON
NETUPITANT/PALONOSETRON HCL
PALONOSETRON

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

Code	Description	Code Type	Code Category
J1260	DOLASETRON MESYLATE	HCPCS	Procedure
J1626	GRANISETRON	HCPCS	Procedure
C9210	PALONOSETRON	HCPCS	Procedure
J2469	PALONOSETRON	HCPCS	Procedure
J0780	PROCHLORPERAZINE	HCPCS	Procedure
J2550	PROMETHAZINE HCL	HCPCS	Procedure
J2405	ONDANSETRON	HCPCS	Procedure
J2765	METOCLOPRAMIDE HCL	HCPCS	Procedure

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
59409	VAGINAL DELIVERY ONLY	CPT	Procedure	Inpatient
59410	VAGINAL DELIVERY INCL POSTPARTUM CARE	CPT	Procedure	Inpatient
59510	ROUTINE OB CARE INCL ANTEPARTUM CAR, CESAREAN DELIVER, POSTPARTUM CARE	CPT	Procedure	Inpatient
59514	CESAREAN DELIVERY ONLY	CPT	Procedure	Inpatient
59515	CESAREAN DELIVERY, INCL POSTPARTUM CARE	CPT	Procedure	Inpatient
59610	OB CARE INCL ANTEPARTUM CAR, VAG DELIVER, POSTPART CARE. AFTER PREV C-SECT	CPT	Procedure	Inpatient
59612	VAG DELIVERY ONLY AFTER PREV C-SECT	CPT	Procedure	Inpatient
59614	VAG DELIVERY AFTER PREV C-SECT, INCL POSTPARTUM CARE	CPT	Procedure	Inpatient
59618	OB CARE INCL ANTEPARTUM CAR, CES DELIVER, POSTPART CARE. AFTER PREV C-SECT	CPT	Procedure	Inpatient
59620	CESAREAN DELIVERY ONLY AFTER PREV C-SECT	CPT	Procedure	Inpatient
59622	CESAREAN DELIVERY AFTER PREV C-SECT, INCL POSTPARTUM CARE	CPT	Procedure	Inpatient
72	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.0	LOW FORCEPS OPERATION	ICD-9-CM	Procedure	Inpatient
72.1	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.2	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.21	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.29	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.3	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.31	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.39	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.4	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.5	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.51	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.52	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.53	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.54	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.6	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.7	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.71	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.79	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.8	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
72.9	FORCEPS, VACUUM, AND BREECH DELIVERY	ICD-9-CM	Procedure	Inpatient
73	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.0	ARTIFICIAL RUPTURE OF MEMBRANES	ICD-9-CM	Procedure	Inpatient
73.01	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.09	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.1	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
73.2	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.21	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.22	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.3	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.4	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.5	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.51	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.59	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.6	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.8	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.9	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.91	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.92	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.93	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.94	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
73.99	OTHER PROCEDURES INDUCING OR ASSISTING DELIVERY	ICD-9-CM	Procedure	Inpatient
74.0	Classical Cesarean Section	ICD-9-CM	Procedure	Inpatient
74.1	CESAREAN SECTION AND REMOVAL OF FETUS	ICD-9-CM	Procedure	Inpatient
74.2	CESAREAN SECTION AND REMOVAL OF FETUS	ICD-9-CM	Procedure	Inpatient
74.4	CESAREAN SECTION AND REMOVAL OF FETUS	ICD-9-CM	Procedure	Inpatient
74.9	CESAREAN SECTION AND REMOVAL OF FETUS	ICD-9-CM	Procedure	Inpatient
74.99	CESAREAN SECTION AND REMOVAL OF FETUS	ICD-9-CM	Procedure	Inpatient
641.01	PLACENTA PREVIA WITHOUT HEMORRHAGE, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
641.11	HEMORRHAGE FROM PLACENTA PREVIA, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
641.21	PREMATURE SEPARATION OF PLACENTA, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
641.31	ANTEPARTUM HEMORRHAGE ASSOC WITH COAG DEFECT, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
641.81	OTHER ANTEPARTUM HEMORRHAGE, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
641.91	UNSPECIFIED ANTEPARTUM HEMORRHAGE, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
642.01	BENIGN ESSENTIAL HYPERTENSION WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.02	BENIGN ESSENTIAL HYPERTENSION, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.11	HYPERTENSION SECONDARY TO RENAL DISEASE, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.12	HYPERTENSION SECONDARY TO RENAL DISEASE, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.21	OTHER PRE-EXISTING HYPERTENSION, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.22	OTHER PRE-EXISTING HYPERTENSION, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.31	TRANSIENT HYPERTENSION OF PREGNANCY, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.32	TRANSIENT HYPERTENSION OF PREGNANCY, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.41	MILD OR UNSPECIFIED PRE-ECLAMPSIA, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
642.42	MILD OR UNSPECIFIED PRE-ECLAMPSIA, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.51	SEVERE PRE-ECLAMPSIA, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.52	SEVERE PRE-ECLAMPSIA, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.61	ECLAMPSIA, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.62	ECLAMPSIA, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
642.71	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery	ICD-9-CM	Diagnosis	Inpatient
642.72	Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, with delivery, with mention postpartum complication	ICD-9-CM	Diagnosis	Inpatient
642.91	UNSPECIFIED HYPERTENSION, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
642.92	UNSPECIFIED HYPERTENSION, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
643.01	Mild hyperemesis gravidarum, delivered	ICD-9-CM	Diagnosis	Inpatient
643.11	Hyperemesis gravidarum with metabolic disturbance, delivered	ICD-9-CM	Diagnosis	Inpatient
643.21	LATE VOMITING OF PREGNANCY, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
643.81	OTHER VOMITING COMPLICATING PREGNANCY, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
643.91	UNSPECIFIED VOMITING OF PREGNANCY, DELIVERED	ICD-9-CM	Diagnosis	Inpatient
644.21	EARLY ONSET OF DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
645.01	PROLONGED PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
645.11	POST TERM PREGNANCY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM CONDO	ICD-9-CM	Diagnosis	Inpatient
645.21	PROLONGED PREGNANCY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
645.22	PROLONGED PREGNANCY, DELIVERED, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.01	PAPYRACEOUS FETUS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.11	EDEMA OR EXCESSIVE WEIGHT GAIN IN PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPART CON	ICD-9-CM	Diagnosis	Inpatient
646.12	EDEMA OR EXCESSIVE WEIGHT GAIN IN PREGNANCY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.21	UNSPECIFIED RENAL DISEASE IN PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.22	UNSPECIFIED RENAL DISEASE IN PREGNANCY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
646.31	HABITUAL ABORTER, DELIVERED, WITH OR WITHOUT MENTION OF ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.41	PERIPHERAL NEURITIS IN PREGNANCY, WITH DELIVERY WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.42	PERIPHERAL NEURITIS IN PREGNANCY, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.51	ASYMPTOMATIC BACTERIURIA IN PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.52	ASYMPTOMATIC BACTERIURIA IN PREGNANCY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.61	INFECTIONS OF GENITOURINARY TRACT IN PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.62	INFECTIONS OF GENITOURINARY TRACT IN PREGNANCY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.71	LIVER DISORDERS IN PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.81	OTHER SPECIFIED COMPLICATIONS OF PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
646.82	OTHER SPECIFIED COMPLICATIONS OF PREGNANCY, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
646.91	UNSPECIFIED COMPLICATION OF PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.01	SYPHILIS OF MOTHER, COMPLICATING PREGNANCY, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.02	SYPHILIS OF MOTHER, COMPLICATING PREGNANCY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.11	GONORRHEA OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.12	GONORRHEA OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.21	OTHER VENEREAL DISEASES OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.22	OTHER VENEREAL DISEASES OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.31	TUBERCULOSIS OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.32	TUBERCULOSIS OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.41	MALARIA OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
647.42	MALARIA OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.51	RUBELLA OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.52	RUBELLA OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.61	OTHER VIRAL DISEASES OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.62	OTHER VIRAL DISEASES OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
647.81	OTHER SPECIFIED INFECTIOUS AND PARASITIC DISEASES OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.82	OTHER SPECIFIED INFECTIOUS AND PARASITIC DISEASES OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.91	UNSPECIFIED INFECTION OR INFESTATION OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
647.92	UNSPECIFIED INFECTION OR INFESTATION OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.01	DIABETES MELLITUS OF MOTHER, WITH DELIVERY	ICD-9-CM	Diagnosis	Inpatient
648.02	DIABETES MELLITUS OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.11	THYROID DYSFUNCTION OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.12	THYROID DYSFUNCTION OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.21	ANEMIA OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.22	ANEMIA OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPART COMP	ICD-9-CM	Diagnosis	Inpatient
648.31	DRUG DEPENDENCE OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.32	DRUG DEPENDENCE OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.41	MENTAL DISORDERS OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.42	MENTAL DISORDERS OF MOTHER, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.51	CONGENITAL CARDIOVASCULAR DISORDERS OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.52	CONGENITAL CARDIOVASCULAR DISORDERS OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
648.61	OTHER CARDIOVASCULAR DISEASES OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.62	OTHER CARDIOVASCULAR DISEASES OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.71	BONE AND JOINT DISORDERS OF BACK, PELVIS, AND LOWER LIMBS, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.72	BONE AND JOINT DISORDERS OF BACK, PELVIS, AND LOWER LIMBS, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.81	ABNORMAL GLUCOSE TOLERANCE OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.82	ABNORMAL GLUCOSE TOLERANCE OF MOTHER, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
648.91	OTHER CURRENT CONDITIONS CLASSIFIABLE ELSEWHERE OF MOTHER, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
648.92	OTHER CURRENT CONDITIONS CLASSIFIABLE ELSEWHERE OF MOTHER, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.31	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.32	Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.41	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.42	Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
649.61	Uterine size date discrepancy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
649.62	Uterine size date discrepancy, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
649.71	Cervical shortening, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
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	Inpatient
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	Inpatient
650	NORMAL DELIVERY	ICD-9-CM	Diagnosis	Inpatient
651.01	TWIN PREGNANCY, DELIVERED WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.11	TRIPLET PREGNANCY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.21	QUADRUPLET PREGNANCY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.31	TWIN PREGNANCY WITH FETAL LOSS AND RETENTION OF ONE FETUS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.41	TRIPLET PREGNANCY WITH FETAL LOSS AND RETENTION OF ONE OR MORE FETUS(ES), DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.51	QUADRUPLET PREGNANCY WITH FETAL LOSS AND RETENTION OF ONE OR MORE FETUS(ES), DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.61	OTHER MULTIPLE PREGNANCY WITH FETAL LOSS AND RETENTION OF ONE OR MORE FETUS(ES), DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.71	Multiple gestation following (elective) fetal reduction,delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
651.81	OTHER SPECIFIED MULTIPLE GESTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
651.91	UNSPECIFIED MULTIPLE GESTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.01	UNSTABLE LIE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
652.11	BREECH OR OTHER MALPRESENTATION SUCCESSFULLY CONVERTED TO CEPHALIC PRESENTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.21	BREECH PRESENTATION WITHOUT MENTION OF VERSION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.31	TRANSVERSE OR OBLIQUE PRESENTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.41	FACE OR BROW PRESENTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.51	HIGH HEAD AT TERM, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.61	MULTIPLE GESTATION WITH MALPRESENTATION OF ONE FETUS OR MORE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.71	PROLAPSED ARM OF FETUS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.81	OTHER SPECIFIED MALPOSITION OR MALPRESENTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
652.91	UNSPECIFIED MALPOSITION OR MALPRESENTATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.01	MAJOR ABNORMALITY OF BONY PELVIS, NOT FURTHER SPECIFIED, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.11	GENERALLY CONTRACTED PELVIS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.21	INLET CONTRACTION OF PELVIS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.31	OUTLET CONTRACTION OF PELVIS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.41	FETOPELVIC DISPROPORTION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.51	UNUSUALLY LARGE FETUS CAUSING DISPROPORTION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.61	HYDROCEPHALIC FETUS CAUSING DISPROPORTION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.71	OTHER FETAL ABNORMALITY CAUSING DISPROPORTION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.81	DISPROPORTION OF OTHER ORIGIN, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
653.91	UNSPECIFIED DISPROPORTION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Code	Description	Code Type	Code Category	Care Setting
654.01	CONGENITAL ABNORMALITIES OF UTERUS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.02	CONGENITAL ABNORMALITIES OF UTERUS, DELIVERED, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.11	TUMORS OF BODY OF UTERUS, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.12	TUMORS OF BODY OF UTERUS, DELIVERED, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.21	PREVIOUS CESAREAN DELIVERY, DELIVERED, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.31	RETROVERTED AND INCARCERATED GRAVID UTERUS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.32	RETROVERTED AND INCARCERATED GRAVID UTERUS, DELIVERED, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.41	OTHER ABNORMALITIES IN SHAPE OR POSITION OF GRAVID UTERUS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.42	OTHER ABNORMALITIES IN SHAPE OR POSITION OF GRAVID UTERUS, DELIVERED WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.51	CERVICAL INCOMPETENCE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.52	CERVICAL INCOMPETENCE, DELIVERED, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.61	OTHER CONGENITAL OR ACQUIRED ABNORMALITY OF CERVIX, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.62	OTHER CONGENITAL OR ACQUIRED ABNORMALITY OF CERVIX, DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.71	CONGENITAL OR ACQUIRED ABNORMALITY OF VAGINA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.72	CONGENITAL OR ACQUIRED ABNORMALITY OF VAGINA, DELIVERED, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.81	CONGENITAL OR ACQUIRED ABNORMALITY OF VULVA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.82	CONGENITAL OR ACQUIRED ABNORMALITY OF VULVA, DELIVERED, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
654.91	OTHER AND UNSPECIFIED ABNORMALITY OF ORGANS AND SOFT TISSUE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
654.92	OTHER AND UNSPECIFIED ABNORMALITY OF ORGANS AND SOFT TISSUE, DELIVERED WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
655.01	CENTRAL NERVOUS SYSTEM MALFORMATION IN FETUS, WITH DELIVERY, , WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
655.11	CHROMOSOMAL ABNORMALITY IN FETUS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.21	HEREDITARY DISEASE IN FAMILY POSSIBLY AFFECTING FETUS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.31	SUSPECTED DAMAGE TO FETUS FROM VIRAL DISEASE IN THE MOTHER, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.41	SUSPECTED DAMAGE TO FETUS FROM OTHER DISEASE IN THE MOTHER, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.51	SUSPECTED DAMAGE TO FETUS FROM DRUGS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.61	SUSPECTED DAMAGE TO FETUS FROM RADIATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.71	DECREASED FETAL MOVEMENTS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.81	OTHER KNOWN OR SUSPECTED FETAL ABNORMALITY, NOT ELSEWHERE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
655.91	UNSPECIFIED SUSPECTED FETAL ABNORMALITY, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.01	FETAL-MATERNAL HEMORRHAGE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.11	RHESUS ISOIMMUNIZATION, AFFECTING MANAGEMENT OF MOTHER, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.21	ISOIMMUNIZATION FROM OTHER AND UNSPECIFIED BLOOD-GROUP, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.31	FETAL DISTRESS, AFFECTING MANAGEMENT OF MOTHER, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.41	INTRAUTERINE DEATH, AFFECTING MANAGEMENT OF MOTHER, DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.51	POOR FETAL GROWTH, AFFECTING MANAGEMENT OF MOTHER, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.61	EXCESSIVE FETAL GROWTH, AFFECTING MANAGEMENT OF MOTHER, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.71	OTHER PLACENTAL CONDITIONS, AFFECTING MANAGEMENT OF MOTHER, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
656.81	OTHER SPECIFIED FETAL AND PLACENTAL PROBLEMS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
656.91	UNSPECIFIED FETAL AND PLACENTAL PROBLEM, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
657.01	POLYHYDRAMNIOS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.01	OLIGOHYDRAMNIOS, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.11	PREMATURE RUPTURE OF MEMBRANES, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.21	DELAYED DELIVERY AFTER SPONTANEOUS OR UNSPECIFIED RUPTURE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.31	DELAYED DELIVERY AFTER ARTIFICIAL RUPTURE OF MEMBRANES, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.41	INFECTION OF AMNIOTIC CAVITY, DELIVERED , WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.81	OTHER PROBLEMS ASSOCIATED WITH AMNIOTIC CAVITY AND MEMBRANE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
658.91	UNSPECIFIED PROBLEM ASSOCIATED WITH AMNIOTIC CAVITY AND MEMBRANE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.01	FAILED MECHANICAL INDUCTION OF LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.11	FAILED MEDICAL OR UNSPECIFIED INDUCTION OF LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.21	UNSPECIFIED TYPE MATERNAL PYREXIA DURING LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.31	GENERALIZED INFECTION DURING LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.41	GRAND MULTIPARITY, WITH CURRENT PREGNANCY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.51	ELDERLY PRIMIGRAVIDA, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.61	ELDERLY MULTIGRAVIDA, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.71	ABNORMALITY IN FETAL HEART RATE/RHYTHM, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
659.81	OTHER SPECIFIED INDICATIONS FOR CARE OR INTERVENTION RELATED TO LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
659.91	UNSPECIFIED INDICATION FOR CARE OR INTERVENTION RELATED TO LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.01	OBSTRUCTION CAUSED BY MALPOSITION OF FETUS AT ONSET OF LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.11	OBSTRUCTION BY BONY PELVIS DURING LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.21	OBSTRUCTION BY ABNORMAL PELVIC SOFT TISSUES DURING LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.31	DEEP TRANSVERSE ARREST AND PERSISTENT OCCIPITOPOSTERIOR POSITION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.41	SHOULDER (GIRDLE) DYSTOCIA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.51	LOCKED TWINS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.61	FAILED TRIAL OF LABOR, UNSPECIFIED, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.71	FAILED FORCEPS OR VACUUM EXTRACTOR, UNSPECIFIED, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.81	OTHER CAUSES OF OBSTRUCTED LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
660.91	UNSPECIFIED OBSTRUCTED LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.01	PRIMARY UTERINE INERTIA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.11	SECONDARY UTERINE INERTIA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.21	OTHER AND UNSPECIFIED UTERINE INERTIA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.31	PRECIPITATE LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.41	HYPERTONIC, INCOORDINATE, OR PROLONGED UTERINE CONTRACTIONS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
661.91	UNSPECIFIED ABNORMALITY OF LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
662.01	PROLONGED FIRST STAGE OF LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
662.11	PROLONGED LABOR, UNSPECIFIED TYPE, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
662.21	PROLONGED SECOND STAGE OF LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
662.31	DELAYED DELIVERY OF SECOND TWIN, TRIPLET, ETC., DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.01	PROLAPSE OF CORD COMPLICATING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.11	CORD AROUND NECK, WITH COMPRESSION, COMPLICATING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.21	OTHER AND UNSPECIFIED CORD ENTANGLEMENT, WITH COMPRESSION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.31	OTHER AND UNSPECIFIED CORD ENTANGLEMENT, WITHOUT MENTION OF COMPRESSION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.41	SHORT CORD COMPLICATING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.51	VASA PREVIA COMPLICATING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.61	VASCULAR LESIONS OF CORD COMPLICATING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.81	OTHER UMBILICAL CORD COMPLICATIONS DURING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
663.91	UNSPECIFIED UMBILICAL CORD COMPLICATION DURING LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.01	FIRST-DEGREE PERINEAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.11	SECOND-DEGREE PERINEAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.21	THIRD-DEGREE PERINEAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.31	FOURTH-DEGREE PERINEAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.41	UNSPECIFIED PERINEAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.51	VULVAR AND PERINEAL HEMATOMA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
664.61	Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration, delivered, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.81	OTHER SPECIFIED TRAUMA TO PERINEUM AND VULVA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
664.91	UNSPECIFIED TRAUMA TO PERINEUM AND VULVA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.01	RUPTURE OF UTERUS BEFORE ONSET OF LABOR, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.11	RUPTURE OF UTERUS DURING LABOR, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.22	INVERSION OF UTERUS, DELIVERED WITH POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
665.31	LACERATION OF CERVIX, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.41	HIGH VAGINAL LACERATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.51	OTHER INJURY TO PELVIC ORGANS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.61	DAMAGE TO PELVIC JOINTS AND LIGAMENTS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.71	PELVIC HEMATOMA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.72	PELVIC HEMATOMA, DELIVERED WITH POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
665.81	OTHER SPECIFIED OBSTETRICAL TRAUMA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.82	OTHER SPECIFIED OBSTETRICAL TRAUMA, DELIVERED, WITH POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
665.91	UNSPECIFIED OBSTETRICAL TRAUMA, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
665.92	UNSPECIFIED OBSTETRICAL TRAUMA, DELIVERED, WITH POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
666.02	THIRD-STAGE POSTPARTUM HEMORRHAGE, WITH DELIVERY, WITH POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
666.12	OTHER IMMEDIATE POSTPARTUM HEMORRHAGE, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
666.22	DELAYED AND SECONDARY POSTPARTUM HEMORRHAGE, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
666.32	POSTPARTUM COAGULATION DEFECTS, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient

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Code	Description	Code Type	Code Category	Care Setting
667.02	RETAINED PLACENTA WITHOUT HEMORRHAGE, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
667.12	RETAINED PORTIONS OF PLACENTA OR MEMBRANES, WITHOUT HEMORRHAGE, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
668.01	PULMONARY COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
668.02	PULMONARY COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
668.11	CARDIAC COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
668.12	CARDIAC COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
668.21	CENTRAL NERVOUS SYSTEM COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
668.22	CENTRAL NERVOUS SYSTEM COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION, DELIVERED, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
668.81	OTHER COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
668.82	OTHER COMPLICATIONS OF ANESTHESIA OR OTHER SEDATION IN LABOR AND DELIVERY, DELIVERED, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
668.91	UNSPECIFIED COMPLICATION OF ANESTHESIA OR OTHER SEDATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
668.92	UNSPECIFIED COMPLICATION OF ANESTHESIA OR OTHER SEDATION, DELIVERED, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
669.01	MATERNAL DISTRESS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.02	MATERNAL DISTRESS, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
669.11	SHOCK DURING OR FOLLOWING LABOR AND DELIVERY, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.12	SHOCK DURING OR FOLLOWING LABOR AND DELIVERY, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
669.21	MATERNAL HYPOTENSION SYNDROME, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.22	MATERNAL HYPOTENSION SYNDROME, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient

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Code	Description	Code Type	Code Category	Care Setting
669.32	ACUTE RENAL FAILURE WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
669.41	OTHER COMPLICATIONS OF OBSTETRICAL SURGERY AND PROCEDURES, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.42	OTHER COMPLICATIONS OF OBSTETRICAL SURGERY AND PROCEDURES, DELIVERED, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
669.51	FORCEPS OR VACUUM EXTRACTOR DELIVERY WITHOUT MENTION OF INDICATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.61	BREECH EXTRACTION, WITHOUT MENTION OF INDICATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.71	CESAREAN DELIVERY, WITHOUT MENTION OF INDICATION, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.81	OTHER COMPLICATIONS OF LABOR AND DELIVERY, DELIVERED, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.82	Other complication of labor and delivery, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
669.91	UNSPECIFIED COMPLICATION OF LABOR AND DELIVERY, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
669.92	UNSPECIFIED COMPLICATION OF LABOR AND DELIVERY, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
670.02	MAJOR PUERPERAL INFECTION, DELIVERED, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
670.12	PUERPERAL ENDOMETRITIS, DELIVERED, WITH MENTION OF POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
670.22	PUERPERAL SEPSIS, DELIVERED, WITH MENTION OF POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
670.32	PUERPERAL SEPTIC THROMBOPHLEBITIS, DELIVERED, WITH MENTION OF POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
670.82	OTHER MAJOR PUERPERAL INFECTION, DELIVERED, WITH MENTION OF POSTPARTUM COMPLICATION	ICD-9-CM	Diagnosis	Inpatient
671.01	VARICOSE VEINS OF LEGS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.02	VARICOSE VEINS OF LEGS, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
671.11	VARICOSE VEINS OF VULVA AND PERINEUM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.12	VARICOSE VEINS OF VULVA AND PERINEUM, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
671.21	SUPERFICIAL THROMBOPHLEBITIS WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.22	SUPERFICIAL THROMBOPHLEBITIS WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
671.31	DEEP PHLEBOTHROMBOSIS, ANTEPARTUM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.42	DEEP PHLEBOTHROMBOSIS, POSTPARTUM, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
671.51	OTHER PHLEBITIS AND THROMBOSIS WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.52	OTHER PHLEBITIS AND THROMBOSIS WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
671.81	OTHER VENOUS COMPLICATIONS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.82	OTHER VENOUS COMPLICATIONS, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
671.91	UNSPECIFIED VENOUS COMPLICATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
671.92	UNSPECIFIED VENOUS COMPLICATION, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
672.02	PYREXIA OF UNKNOWN ORIGIN, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
673.01	OBSTETRICAL AIR EMBOLISM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
673.02	OBSTETRICAL AIR EMBOLISM, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
673.11	AMNIOTIC FLUID EMBOLISM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
673.12	AMNIOTIC FLUID EMBOLISM, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
673.21	OBSTETRICAL BLOOD-CLOT EMBOLISM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARUM COND	ICD-9-CM	Diagnosis	Inpatient
673.22	Obstetrical blood-clot embolism, delivered, with mention of postpartum complication	ICD-9-CM	Diagnosis	Inpatient
673.31	OBSTETRICAL PYEMIC AND SEPTIC EMBOLISM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
673.32	OBSTETRICAL PYEMIC AND SEPTIC EMBOLISM, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
673.81	OTHER OBSTETRICAL PULMONARY EMBOLISM, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
673.82	OTHER OBSTETRICAL PULMONARY EMBOLISM, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.01	CEREBROVASCULAR DISORDERS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
674.02	CEREBROVASCULAR DISORDERS, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.12	DISRUPTION OF CESAREAN WOUND, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.22	DISRUPTION OF PERINEAL WOUND, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.32	OTHER COMPLIC OF OBSTET SURG WOUNDS, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.42	PLACENTAL POLYP, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.51	Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
674.52	Peripartum cardiomyopathy, delivered, with mention of postpartum condition	ICD-9-CM	Diagnosis	Inpatient
674.82	OTHER COMPLICATIONS OF PUERPERIUM, WITH DELIVERY, WITH MENT POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
674.92	UNSPECIFIED COMPLICATIONS OF PUERPERIUM, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
675.01	INFECTION OF NIPPLE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.02	INFECTION OF NIPPLE, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
675.11	ABSCESS OF BREAST, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.12	ABSCESS OF BREAST, WITH DELIVERY, WITH MENTION POSTPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.21	NONPURULENT MASTITIS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.22	NONPURULENT MASTITIS, WITH DELIVERY, WITH MENTION POSTPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.81	OTHER SPEC INFECT OF BREAST, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.82	OTHER SPEC INFECT OF BREAST, WITH DELIVERY, WITH MENTION POSTPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
675.91	UNSPEC INFECT OF BREAST, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
675.92	UNSPEC INFECT OF BREAST, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.01	RETRACTED NIPPLE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.02	RETRACTED NIPPLE, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.11	CRACKED NIPPLE, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.12	CRACKED NIPPLE, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.21	ENGORGEMENT OF BREASTS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.22	ENGORGEMENT OF BREASTS, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.31	OTHER DISORDER OF BREASTS, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.32	OTHER DISORDER OF BREASTS, WITH DELIVERY, WITH MENTION POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.41	FAILURE OF LACTATION, WITH DELIVERY, WITH OR WITHOUT MENT ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.42	FAILURE OF LACTATION, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.51	SUPPRESSED LACTATION, WITH DELIVERY, WITH OR WITHOUT MENTION ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.52	SUPPRESSED LACTATION, WITH DELIVERY, WITH MENTION OF POSTPARTUM COMP	ICD-9-CM	Diagnosis	Inpatient
676.61	GALACTORRHEA, WITH DELIVERY, WITH OR WITHOUT MENTION OF ANTEPARTUM COND	ICD-9-CM	Diagnosis	Inpatient
676.62	GALACTORRHEA, WITH DELIVERY, WITH MENTION OF POSTPARTUM C	ICD-9-CM	Diagnosis	Inpatient
676.81	OTHER DISORDERS OF LACTATION, WITH DELIVERY, WITH OR WITH	ICD-9-CM	Diagnosis	Inpatient
676.82	OTHER DISORDERS OF LACTATION, WITH DELIVERY, WITH MENTION	ICD-9-CM	Diagnosis	Inpatient
676.91	UNSPECIFIED DISORDER OF LACTATION, WITH DELIVERY, WITH OR	ICD-9-CM	Diagnosis	Inpatient
676.92	UNSPECIFIED DISORDER OF LACTATION, WITH DELIVERY, WITH ME	ICD-9-CM	Diagnosis	Inpatient
678.01	Fetal hematologic conditions, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
678.11	Fetal conjoined twins, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
679.01	Maternal complications from in utero procedure, delivered with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
679.02	Maternal complications from in utero procedure, delivered with mention of postpartum condition	ICD-9-CM	Diagnosis	Inpatient
679.11	Fetal complications from in utero procedure, delivered, with or without mention of antepartum condition	ICD-9-CM	Diagnosis	Inpatient
679.12	Fetal complications from in utero procedure, delivered with mention of postpartum condition	ICD-9-CM	Diagnosis	Inpatient
763.0	BREECH DELIVERY AND EXTRACTION AFFECTING FETUS OR NEWBORN	ICD-9-CM	Diagnosis	Inpatient
763.2	FORCEPS DELIVERY AFFECTING FETUS OR NEWBORN	ICD-9-CM	Diagnosis	Inpatient
763.3	DELIVERY BY VACUUM EXTRACTOR AFFECTING FETUS OR NEWBORN	ICD-9-CM	Diagnosis	Inpatient
763.4	CESAREAN DELIVERY AFFECTING FETUS OR NEWBORN	ICD-9-CM	Diagnosis	Inpatient
763.6	PRECIPITATE DELIVERY AFFECTING FETUS OR NEWBORN	ICD-9-CM	Diagnosis	Inpatient
768.0	Fetal death from asphyxia or anoxia before onset of labor or at unspecified time	ICD-9-CM	Diagnosis	Inpatient
768.1	Fetal death from asphyxia or anoxia during labor	ICD-9-CM	Diagnosis	Inpatient
V27	OUTCOME OF DELIVERY	ICD-9-CM	Diagnosis	Inpatient
V27.0	SINGLE NEWBORN	ICD-9-CM	Diagnosis	Inpatient
V27.1	SINGLE STILLBORN	ICD-9-CM	Diagnosis	Inpatient
V27.2	TWINS, BOTH LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V27.3	TWINS, ONE LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V27.4	TWINS, STILLBORN	ICD-9-CM	Diagnosis	Inpatient
V27.5	OTHER MULTIPLE BIRTH, ALL LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V27.6	OTHER MULTIPLE BIRTH, SOME LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V27.7	OTHER MULTIPLE BIRTH, ALL STILLBORN	ICD-9-CM	Diagnosis	Inpatient
V27.9	MOTHER WITH UNSPECIFIED OUTCOME OF DELIVERY	ICD-9-CM	Diagnosis	Inpatient
V30	SINGLE LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V30.0	SINGLE NEWBORN, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V30.00	SINGLE NEWBORN, BORN IN HOSPITAL, DELIVERED WITHOUT MENTION OF CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V30.01	SINGLE NEWBORN, BORN IN HOSPITAL, CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V30.1	Single liveborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V30.2	Single liveborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V31	TWIN BIRTH, MATE LIVEBORN	ICD-9-CM	Diagnosis	Inpatient
V31.0	TWIN BIRTH MATE LIVEBORN, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V31.00	TWIN BIRTH MATE LIVEBORN, BORN IN HOSPITAL DELIEVERED WITHOUT MENTION OF CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V31.01	TWIN BIRTH MATE LIVEBORN, BORN IN HOSPITAL DELIVERED BY CESAREAN SECTION	ICD-9-CM	Diagnosis	Inpatient
V31.1	Twin birth, mate liveborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V31.2	Twin birth, mate liveborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V32	Twin birth mate stillborn	ICD-9-CM	Diagnosis	Inpatient
V32.0	TWIN, BORN IN HOSPITAL, MATE STILLBORN	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
V32.00	Twin birth mate stillborn born in hospital, delivered without mention of cesarean section	ICD-9-CM	Diagnosis	Inpatient
V32.01	TWIN, BORN IN HOSPITAL, CESAREAN, MATE STILLBORN	ICD-9-CM	Diagnosis	Inpatient
V32.1	Twin birth, mate stillborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V32.2	Twin birth, mate stillborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V33	Twin birth unspecified whether mate liveborn or stillborn	ICD-9-CM	Diagnosis	Inpatient
V33.0	Twin birth unspecified whether mate liveborn or stillborn born in hospital	ICD-9-CM	Diagnosis	Inpatient
V33.00	Twin birth, unspecified whether mate liveborn or stillborn, born in hospital, delivered without mention of cesarean section	ICD-9-CM	Diagnosis	Inpatient
V33.01	TWIN, BORN IN HOSPITAL, CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V33.1	Twin birth, unspecified whether mate liveborn or stillborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V33.2	Twin birth, unspecified whether mate liveborn or stillborn, before outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V34	Other multiple birth (three or more) mates all liveborn	ICD-9-CM	Diagnosis	Inpatient
V34.0	OTHER MULTIPLE, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V34.00	OTHER MULTIPLE, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V34.01	OTHER MULTIPLE, BORN IN HOSPITAL, CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V34.1	Other multiple birth (three or more), mates all liveborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V34.2	Other multiple birth (three or more), mates all liveborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V35	OTHER MULTIPLE, mates stillborn	ICD-9-CM	Diagnosis	Inpatient
V35.0	OTHER MULTIPLE, BORN IN HOSPITAL, mates stillborn	ICD-9-CM	Diagnosis	Inpatient
V35.00	OTHER MULTIPLE, BORN IN HOSPITAL, mates stillborn	ICD-9-CM	Diagnosis	Inpatient
V35.01	OTHER MULTIPLE, BORN IN HOSPITAL, CESAREAN, mates stillborn	ICD-9-CM	Diagnosis	Inpatient
V35.1	Other multiple birth (three or more), mates all stillborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V35.2	Other multiple birth (three or more), mates all stillborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V36	Other multiple birth (three or more), mates liveborn and stillborn	ICD-9-CM	Diagnosis	Inpatient
V36.0	OTHER MULTIPLE, BORN IN HOSPITAL, mates liveborn and stillborn	ICD-9-CM	Diagnosis	Inpatient
V36.00	OTHER MULTIPLE, BORN IN HOSPITAL, mates liveborn and stillborn	ICD-9-CM	Diagnosis	Inpatient
V36.01	OTHER MULTIPLE, BORN IN HOSPITAL, CESAREAN, mates liveborn and stillborn	ICD-9-CM	Diagnosis	Inpatient
V36.1	Other multiple birth (three or more), mates liveborn and stillborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V36.2	Other multiple birth (three or more), mates liveborn and stillborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis and Procedure Codes, and Current Procedural Terminology (CPT) Procedure Codes Used to Define Pregnancies with Live-Birth Deliveries in this Request

Code	Description	Code Type	Code Category	Care Setting
V37	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn	ICD-9-CM	Diagnosis	Inpatient
V37.0	OTHER MULTIPLE, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V37.00	OTHER MULTIPLE, BORN IN HOSPITAL	ICD-9-CM	Diagnosis	Inpatient
V37.01	OTHER MULTIPLE, BORN IN HOSPITAL, CESAREAN	ICD-9-CM	Diagnosis	Inpatient
V37.1	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V37.2	Other multiple birth (three or more), unspecified whether mates liveborn or stillborn, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient
V39	Liveborn, unspecified whether single, twin or multiple	ICD-9-CM	Diagnosis	Inpatient
V39.0	Liveborn, unspecified whether single, twin or multiple, born in hospital	ICD-9-CM	Diagnosis	Inpatient
V39.00	Liveborn, unspecified whether single, twin or multiple, born in hospital without mention of Cesarean	ICD-9-CM	Diagnosis	Inpatient
V39.01	Liveborn, unspecified whether single, twin or multiple, born in hospital delivered byCesarean section	ICD-9-CM	Diagnosis	Inpatient
V39.1	Liveborn, unspecified whether single, twin or multiple, born before admission to hospital	ICD-9-CM	Diagnosis	Inpatient
V39.2	Liveborn, unspecified whether single, twin or multiple, born outside hospital and not hospitalized	ICD-9-CM	Diagnosis	Inpatient

Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Baseline Characteristic Pre-Existing Conditions in this Request

Code	Description	Code Type	Code Category
340.*	Multiple Sclerosis	ICD-9-CM	Diagnosis
710.0*	Lupus	ICD-9-CM	Diagnosis

Appendix F. List of Generic Drug Names Used to Define Baseline Characteristic Medication Use in this Request

Generic Name
INSULIN LISPRO
INSULIN NPL/INSULIN LISPRO
INSULIN REGULAR, HUMAN
INSULIN REGULAR,HUMAN BUFFERED
NPH, HUMAN INSULIN ISOPHANE
INSULIN ZINC HUMAN REC
INSULIN ZINC EXTEND HUMAN REC
HUM INSULIN NPH/REG INSULIN HM
INSULIN ADMIN/SUPPLIES
INSULIN REGULAR,HUMAN BUFFERED
INSULIN NPH HUMAN SEMI-SYNTHETIC
INSULIN NPH/S/S/REGULAR INSULINS/S
INSULIN ZINC HUMAN SEMI-SYNTHETIC
INSULIN REG HUMAN SEMI-SYNTHETIC
SAXAGLIPTIN HCL
SAXAGLIPTIN HCL/METFORMIN HCL
SITAGLIPTIN PHOSPHATE/METFORMIN HCL
SITAGLIPTIN PHOSPHATE
SITAGLIPTIN/SIMVASTATIN
ROSIGLITAZONE/GLIMEPIRIDE
ROSIGLITAZONE/METFORMIN HCL
TOLAZAMIDE
TOLBUTAMIDE
GLYBURIDE
MIGLITOL
ACARBOSE
ROSIGLITAZONE MALEATE
GLIMEPIRIDE
GLIPIZIDE
CHLORPROPAMIDE
NATEGLINIDE
METFORMIN HCL
GLYBURIDE/METFORMIN HCL
GLIPIZIDE/METFORMIN HCL
INSULIN GLARGINE,HUM.REC.ANLOG
INSULIN GLULISINE
PIOGLITAZONE HCL
PIOGLITAZONE HCL/METFORMIN HCL
REPAGLINIDE
REPAGLINIDE/METFORMIN HCL
INSULIN ASPART
INSULN ASP PRT/INSULIN ASPART
INSULIN DETEMIR
LIRAGLUTIDE
EXENATIDE

Appendix F. List of Generic Drug Names Used to Define Baseline Characteristic Medication Use in this Request

Generic Name
PRAMLINTIDE ACETATE
ACETOHEXAMIDE
LINAGLIPTIN
LINAGLIPTIN/METFORMIN HCL
PIOGLITAZONE HCL/GLIMEPIRIDE
ALOGLIPTINBENZOATE/PIOGLITAZON
ALOGLIPTINBENZOATE
ALOGLIPTINBENZOATE/METFORMIN HCL

Appendix G. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Pre-/Post-Term Birth and Gestational Age* in this Request

Code	Definition	Algorithm-Derived Gestational Age	
		Weeks	*Days*
Pre-term Birth Codes			
765.21	Less than 24 completed weeks of gestation	24	168
765.22	24 completed weeks of gestation		
765.23	25-26 completed weeks of gestation	26	182
765.24	27-28 completed weeks of gestation	28	196
765.0-765.09	Extreme immaturity		
765.25	29-30 completed weeks of gestation	30	210
765.26	31-32 completed weeks of gestation	32	224
765.27	33-34 completed weeks of gestation	34	238
765.28	35-36 completed weeks of gestation	36	252
765.1-765.19	Other preterm infants	35	245
765.2	Preterm with unspecified weeks of gestation		
644.21	Onset of delivery before 37 completed weeks of gestation		
Post-term Birth Codes			
645.1x	Post-term pregnancy, delivered, with or without mention of antepartum condition (over 40 weeks to 42 completed weeks gestation)	41	287
766.21	Post-term infant (gestation period over 40 weeks to 42 completed weeks)	41	287
645.2x	Prolonged pregnancy, delivered (pregnancy which has advanced beyond 42 completed weeks gestation)	42	294
766.22	Prolonged gestation of infant (gestation period over 42 completed weeks)	42	294

*Gestational age for deliveries without an ICD-9-CM diagnosis code for preterm or postterm birth in the table is assumed to be 273 days.