

Supplemental Data

Table e-1. ICD-9-CM diagnosis codes for pregnancy and delivery

Code	Diagnosis
Ectopic and molar pregnancy (630-633.91)	
630	Hydatidiform mole
631.0-631.8	Other abnormal product of conception
632	Abortion, missed
633.00-633.91	Ectopic pregnancy
Other pregnancy with abortive outcome (634.00-639.9)	
634.00-634.92	Spontaneous abortion
635.00-635.92	Legally induced abortion
636.00-636.92	Illegally induced abortion
637.00-637.92	Unspecified abortion
638.0-638.9	Failed attempted abortion
639.0-639.9	Complications following abortion and ectopic and molar pregnancies
Complications mainly related to pregnancy (640.00-649.82)	
640.00-640.93	Hemorrhage in early pregnancy
641.00-641.93	Antepartum hemorrhage, abruptio placentae, and placenta previa
642.00-642.94	Hypertension complicating pregnancy, childbirth, and the puerperium
643.00-643.93	Excessive vomiting in pregnancy
644.00-644.21	Early or threatened labor
645.10-645.23	Late pregnancy
646.00-646.93	Other complications of pregnancy, not elsewhere classified
647.00-647.94	Infectious & parasitic condition in mother classifiable elsewhere, but complicating pregnancy/childbirth
648.00-648.94	Other current condition in mother classifiable elsewhere, complicating pregnancy, childbirth, puerperium
649.00-649.82	Other conditions or status of the mother complicating pregnancy, childbirth, or the puerperium
Normal delivery, and other indications for care in pregnancy, labor, and delivery (650-659.93)	
650-650	Normal delivery

651.00-651.93	Multiple gestation
652.00-652.93	Malposition and malpresentation of fetus
653.00-653.93	Disproportion
654.00-654.94	Abnormality of organs and soft tissues of pelvis
655.00-655.93	Known or suspected fetal abnormality affecting management of mother
656.00-656.93	Other known or suspected fetal and placental problems affecting management of mother
657.00-657.03	Polyhydramnios
658.00-658.93	Other problems associated with amniotic cavity and membranes
659.00-659.93	Other indications for care or intervention related to labor and delivery, NEC

Complications occurring mainly in the course of labor and delivery (660.00-669.94)

660.00-660.93	Obstructed labor
661.00-661.93	Abnormality of forces of labor
662.00-662.33	Long labor
663.00-663.93	Umbilical cord complications
664.00-664.94	Trauma to perineum and vulva during delivery
665.00-665.94	Other obstetrical trauma
666.00-666.34	Postpartum hemorrhage
667.00-667.14	Retained placenta or membranes, without hemorrhage
668.00-668.94	Complications of the administration of anesthetic or other sedation in labor and delivery
669.00-669.94	Other complications of labor and delivery, not elsewhere classified

Complications of the puerperium (670.00 –677)

670.00-670.84	Major puerperal infection
671.00-671.94	Venous complications in pregnancy and the puerperium
672.00-672.04	Pyrexia of unknown origin during the puerperium
673.00-673.84	Obstetrical pulmonary embolism
674.00-674.94	Other and unspecified complications of the puerperium, not elsewhere classified
675.00-675.94	Infections of the breast and nipple associated with childbirth
676.00-676.94	Other disorders of the breast associated with childbirth and disorders of

	lactation
677-677	Late effect of complication of pregnancy, childbirth, and the puerperium

Other maternal and fetal complications (678.00 – 679.14)

678.00-678.13	Other fetal conditions
679.00-679.14	Complications of <i>in utero</i> procedures

Abbreviations: ICD-9-CM = International Classification of Diseases, Ninth Revision, Clinical Modification; NEC = necrotizing enterocolitis

Table e-2. ICD-9-CM procedure codes for pregnancy and delivery

Code	Procedure
V22.0	Supervision of normal first pregnancy
V22.1	Supervision of other normal pregnancy
V22.2	Pregnant state, incidental
V23.1	Supervision of high-risk pregnancy with history of trophoblastic disease
V23.2	Supervision of high-risk pregnancy with history of abortion
V23.3	Supervision of high-risk pregnancy with grand multiparity
V23.41	Pregnancy with history of pre-term labor
V23.42	Pregnancy with history of ectopic pregnancy
V23.49	Pregnancy with other poor obstetric history
V23.5	Supervision of high-risk pregnancy with other poor reproductive history
V23.7	Supervision of high-risk pregnancy with insufficient prenatal care
V23.81	Supervision of high-risk pregnancy with elderly primigravida
V23.82	Supervision of high-risk pregnancy with elderly multigravida
V23.83	Supervision of high-risk pregnancy with young primigravida
V23.84	Supervision of high-risk pregnancy with young multigravida
V23.85	Pregnancy resulting from assisted reproductive technology
V23.86	Pregnancy with history of in utero procedure during previous pregnancy
V23.87	Pregnancy with inconclusive fetal viability
V23.89	Supervision of other high-risk pregnancy
V23.9	Supervision of unspecified high-risk pregnancy
V72.42	Pregnancy examination or test, positive result

Abbreviation: ICD-9-CM = International Classification of Diseases, Ninth Revision, Clinical Modification

Table e-3. CPT codes for live birth delivery

Code	Procedure
1960	Anesthesia for vaginal delivery only
1961	Anesthesia for cesarean delivery only
1962	Anesthesia for urgent hysterectomy following delivery
1963	Anesthesia for cesarean hysterectomy without any labor analgesia/anesthesia care
1967	Neuraxial labor analgesia/anesthesia for planned vaginal delivery (this includes any repeat subarachnoid needle placement and drug injection and/or any necessary replacement of an epidural catheter during labor)
1968	Anesthesia for cesarean delivery following neuraxial labor analgesia/anesthesia (list separately in addition to code for primary procedure performed)
1969	Anesthesia for cesarean hysterectomy following neuraxial labor analgesia/anesthesia (list separately in addition to code for primary procedure performed)
59050	Fetal monitoring during labor by consulting physician (ie, non-attending physician) with written report; supervision and interpretation
59051	Fetal monitoring during labor by consulting physician (ie, non-attending physician) with written report; interpretation only
59400	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care
59409	Vaginal delivery only (with or without episiotomy and/or forceps)
59410	Vaginal delivery only (with or without episiotomy and/or forceps); including postpartum care
59412	External cephalic version, with or without tocolysis
59414	Delivery of placenta (separate procedure)
59430	Postpartum care only (separate procedure)
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care
59514	Cesarean delivery only
59515	Cesarean delivery only; including postpartum care

59525	Subtotal or total hysterectomy after cesarean delivery (list separately in addition to code for primary procedure)
59610	Routine obstetric care including antepartum care, vaginal delivery (with or without episiotomy, and/or forceps) and postpartum care, after previous cesarean delivery
59612	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps)
59614	Vaginal delivery only, after previous cesarean delivery (with or without episiotomy and/or forceps); including postpartum care
59618	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care
99436	Attendance at Delivery and 1st Stabilization of Newborn
99440	Newborn resuscitation

Abbreviation: CPT = Current Procedural Terminology

Table e-4. Clinically relevant, categorized ICD-9-CM codes for complications during pregnancy

Hemorrhagic complications	
640.80	Other specified hemorrhage in early pregnancy, unspecified as to episode of care or not applicable
640.81	Other specified hemorrhage in early pregnancy, delivered, with or without mention of antepartum condition
640.83	Other specified hemorrhage in early pregnancy, antepartum condition or complication
640.90	Unspecified hemorrhage in early pregnancy, unspecified as to episode of care or not applicable
640.91	Unspecified hemorrhage in early pregnancy, delivered, with or without mention of antepartum condition
640.93	Unspecified hemorrhage in early pregnancy, antepartum condition or complication
Threat of abortion/miscarriage	
640.00	Threatened abortion, unspecified as to episode of care or not applicable
640.01	Threatened abortion, delivered, with or without mention of antepartum condition
640.03	Threatened abortion, antepartum condition, or complication
649.50	Spotting complicating pregnancy, unspecified as to episode of care or not applicable
649.51	Spotting complicating pregnancy, delivered, with or without mention of antepartum condition
649.53	Spotting complicating pregnancy, antepartum condition or complication
Pregnancy loss	
646.30	Recurrent pregnancy loss, unspecified as to episode of care or not applicable
646.31	Recurrent pregnancy loss, delivered, with or without mention of antepartum condition
646.33	Recurrent pregnancy loss, antepartum condition, or complication
Placenta previa or premature separation	
641.00	Placenta previa without hemorrhage, unspecified as to episode of care or not applicable
641.01	Placenta previa without hemorrhage, delivered, with or without mention of antepartum condition
641.03	Placenta previa without hemorrhage, antepartum condition, or complication
641.20	Premature separation of placenta, unspecified as to episode of care or not applicable
641.21	Premature separation of placenta, delivered, with or without mention of antepartum condition
641.23	Premature separation of placenta, antepartum condition, or complication

Hypertensive disease of pregnancy

- 642.00 Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care or not applicable
- 642.01 Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, delivered, with or without mention of antepartum condition
- 642.02 Benign essential hypertension, complicating pregnancy, childbirth, and the puerperium, delivered, with mention of postpartum complication
- 642.03 Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, antepartum condition or complication
- 642.04 Benign essential hypertension complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication
- 642.10 Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care or not applicable
- 642.11 Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, delivered, with or without mention of antepartum condition
- 642.12 Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, delivered, with mention of postpartum complication
- 642.13 Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, antepartum condition or complication

- 642.14 Hypertension secondary to renal disease, complicating pregnancy, childbirth, and the puerperium, postpartum condition or complication
- 642.20 Other pre-existing hypertension complicating pregnancy, childbirth, and the puerperium, unspecified as to episode of care or not applicable
- 642.21 Other pre-existing hypertension, complicating pregnancy, childbirth, and the puerperium, delivered, with or without mention of antepartum condition
- 642.22 Other pre-existing hypertension, complicating pregnancy, childbirth, and the puerperium, delivered, with mention of postpartum complication
- 642.23 Other pre-existing hypertension, complicating pregnancy, childbirth, and the puerperium, antepartum condition or complication

- 642.24 Other pre-existing hypertension, complicating pregnancy, childbirth, and the puerperium, , postpartum condition or complication
- 642.30 Transient hypertension of pregnancy, unspecified as to episode of care or not applicable
- 642.31 Transient hypertension of pregnancy, delivered , with or without mention of antepartum condition
- 642.32 Transient hypertension of pregnancy, delivered, with mention of postpartum complication
- 642.33 Transient hypertension of pregnancy, antepartum condition or complication
- 642.34 Transient hypertension of pregnancy, postpartum condition or complication
- 642.90 Unspecified hypertension complicating pregnancy/childbirth; unspecified episode of care
- 642.91 Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 642.92 Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 642.93 Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 642.94 Unspecified hypertension complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

Maternal cardiovascular disease

- 648.50 Congenital cardiovascular disorders of mother, unspecified as to episode of care or not applicable
- 648.51 Congenital cardiovascular disorders of mother, delivered, with or without mention of antepartum condition
- 648.52 Congenital cardiovascular disorders of mother, delivered, with mention of postpartum complication
- 648.53 Congenital cardiovascular disorders of mother, antepartum condition or complication
- 648.54 Congenital cardiovascular disorders of mother, postpartum condition or complication
- 648.60 Other cardiovascular diseases of mother, unspecified as to episode of care or not applicable
- 648.61 Other cardiovascular diseases of mother, delivered, with or without mention of antepartum condition
- 648.62 Other cardiovascular diseases of mother, delivered, with mention of postpartum complication
- 648.63 Other cardiovascular diseases of mother, antepartum condition or complication

648.64 Other cardiovascular diseases of mother, postpartum condition or complication

Liver disease of pregnancy

646.70 Liver disorders in pregnancy, unspecified as to episode of care or not applicable

646.71 Liver disorders in pregnancy, delivered, with or without mention of antepartum condition

646.73 Liver disorders in pregnancy, antepartum condition or complication

Thyroid disease of pregnancy

648.10 Thyroid dysfunction of mother, unspecified as to episode of care or not applicable

648.11 Thyroid dysfunction of mother, delivered, with or without mention of antepartum condition

648.12 Thyroid dysfunction of mother, delivered, with mention of postpartum complication

648.13 Thyroid dysfunction of mother, antepartum condition or complication

648.14 Thyroid dysfunction of mother, postpartum condition or complication

Diabetes and abnormal glucose tolerance test in pregnancy

648.00 Diabetes mellitus of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable

648.01 Diabetes mellitus of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition

648.02 Diabetes mellitus of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication

648.03 Diabetes mellitus of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication

648.04 Diabetes mellitus of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

648.80 Abnormal glucose tolerance of mother, unspecified as to episode of care or not applicable

648.81 Abnormal glucose tolerance of mother, delivered, with or without mention of antepartum condition

648.82 Abnormal glucose tolerance of mother, delivered, with mention of postpartum complication

648.83 Abnormal glucose tolerance of mother, antepartum condition or complication

648.84 Abnormal glucose tolerance of mother, postpartum condition or complication

Renal disease of pregnancy

646.20 Unspecified renal disease in pregnancy, without mention of hypertension, unspecified as to episode of care or not applicable

- 646.21 Unspecified renal disease in pregnancy, without mention of hypertension, delivered, with or without mention of antepartum condition
- 646.22 Unspecified renal disease in pregnancy, without mention of hypertension, delivered, with mention of postpartum complication
- 646.23 Unspecified renal disease in pregnancy, without mention of hypertension, antepartum condition or complication
- 646.24 Unspecified renal disease in pregnancy, without mention of hypertension, postpartum condition or complication

Pre-eclampsia/eclampsia of pregnancy

- 642.40 Mild or unspecified pre-eclampsia, unspecified as to episode of care or not applicable
- 642.41 Mild or unspecified pre-eclampsia, delivered, with or without mention of antepartum condition
- 642.42 Mild or unspecified pre-eclampsia, delivered, with mention of postpartum complication
- 642.43 Mild or unspecified pre-eclampsia, antepartum condition or complication
- 642.44 Mild or unspecified pre-eclampsia, postpartum condition or complication
- 642.50 Severe pre-eclampsia, unspecified as to episode of care or not applicable
- 642.51 Severe pre-eclampsia, delivered, with or without mention of antepartum condition
- 642.52 Severe pre-eclampsia, delivered, with mention of postpartum complication
- 642.53 Severe pre-eclampsia, antepartum condition or complication
- 642.54 Severe pre-eclampsia, postpartum condition or complication
- 642.60 Eclampsia, unspecified as to episode of care or not applicable
- 642.61 Eclampsia, delivered, with or without mention of antepartum condition
- 642.62 Eclampsia, delivered, with mention of postpartum complication
- 642.63 Eclampsia, antepartum condition or complication
- 642.64 Eclampsia, postpartum condition or complication
- 642.70 Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, unspecified as to episode of care or not applicable
- 642.71 Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, delivered, with or without mention of antepartum condition
- 642.72 Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, delivered, with mention of postpartum complication

- 642.73 Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, antepartum condition or complication
- 642.74 Pre-eclampsia or eclampsia superimposed on pre-existing hypertension, postpartum condition or complication

Hyperemesis gravidarum/vomiting in pregnancy

- 643.00 Mild hyperemesis gravidarum, unspecified as to episode of care or not applicable
- 643.01 Mild hyperemesis gravidarum, delivered, with or without mention of antepartum condition
- 643.03 Mild hyperemesis gravidarum, antepartum condition or complication
- 643.10 Hyperemesis gravidarum with metabolic disturbance, unspecified as to episode of care or not applicable
- 643.11 Hyperemesis gravidarum with metabolic disturbance, delivered, with or without mention of antepartum condition
- 643.13 Hyperemesis gravidarum with metabolic disturbance, antepartum condition or complication
- 643.20 Late vomiting of pregnancy, unspecified as to episode of care or not applicable
- 643.21 Late vomiting of pregnancy, delivered, with or without mention of antepartum condition
- 643.23 Late vomiting of pregnancy, antepartum condition or complication
- 643.80 Other vomiting complicating pregnancy, unspecified as to episode of care or not applicable
- 643.81 Other vomiting complicating pregnancy, delivered, with or without mention of antepartum condition
- 643.83 Other vomiting complicating pregnancy, antepartum condition or complication
- 643.90 Unspecified vomiting of pregnancy, unspecified as to episode of care or not applicable
- 643.91 Unspecified vomiting of pregnancy, delivered, with or without mention of antepartum condition
- 643.93 Unspecified vomiting of pregnancy, antepartum condition or complication

Premature labor

- 644.00 Threatened premature labor, unspecified as to episode of care or not applicable
- 644.03 Threatened premature labor, antepartum condition or complication
- 644.10 Other threatened labor, unspecified as to episode of care or not applicable
- 644.13 Other threatened labor, antepartum condition or complication
- 644.20 Early onset of delivery, unspecified as to episode of care or not applicable
- 644.21 Early onset of delivery, delivered, with or without mention of antepartum condition
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Post-term pregnancy

- 645.10 Post-term pregnancy; unspecified episode of care
- 645.11 Post-term pregnancy, delivered, with or without mention of antepartum condition
- 645.13 Post-term pregnancy, antepartum condition or complication
- 645.20 Prolonged pregnancy, unspecified as to episode of care or not applicable
- 645.21 Prolonged pregnancy, delivered, with or without mention of antepartum condition
- 645.23 Prolonged pregnancy, antepartum condition or complication
- 646.00 Papyraceous fetus, unspecified as to episode of care or not applicable
- 646.01 Papyraceous fetus, delivered, with or without mention of antepartum condition
- 646.03 Papyraceous fetus, antepartum condition or complication

Edema or excessive weight gain in pregnancy, without mention of hypertension

- 646.10 Edema or excessive weight gain in pregnancy, without mention of hypertension, unspecified as to episode of care or not applicable
- 646.11 Edema or excessive weight gain in pregnancy, without mention of hypertension, delivered, with or without mention of antepartum complication
- 646.12 Edema or excessive weight gain in pregnancy, without mention of hypertension, delivered, with mention of postpartum complication
- 646.13 Edema or excessive weight gain in pregnancy, without mention of hypertension, antepartum condition or complication
- 646.14 Edema or excessive weight gain in pregnancy, without mention of hypertension, postpartum condition or complication

Obesity or bariatric surgery

- 649.10 Obesity complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 649.11 Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 649.12 Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 649.13 Obesity complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication

- 649.14 Obesity complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
- 649.20 Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 649.21 Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 649.22 Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 649.23 Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 649.24 Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

Infections in pregnancy

- 646.50 Asymptomatic bacteriuria in pregnancy, unspecified as to episode of care or not applicable
- 646.51 Asymptomatic bacteriuria in pregnancy, delivered, with or without mention of antepartum condition
- 646.52 Asymptomatic bacteriuria in pregnancy, delivered, with mention of postpartum complication
- 646.53 Asymptomatic bacteriuria in pregnancy, antepartum condition or complication
- 646.54 Asymptomatic bacteriuria in pregnancy, postpartum condition or complication
- 646.60 Infections of genitourinary tract in pregnancy, unspecified as to episode of care or not applicable
- 646.61 Infections of genitourinary tract in pregnancy, delivered, with or without mention of antepartum condition
- 646.62 Infections of genitourinary tract in pregnancy, delivered, with mention of postpartum complication
- 646.63 Infections of genitourinary tract in pregnancy, antepartum condition or complication
- 646.64 Infections of genitourinary tract in pregnancy, postpartum condition or complication
- 647.30 Tuberculosis of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 647.31 Tuberculosis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition

- 647.32 Tuberculosis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 647.33 Tuberculosis of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 647.34 Tuberculosis of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
- 647.40 Malaria in the mother, unspecified as to episode of care or not applicable
- 647.41 Malaria in the mother, delivered, with or without mention of antepartum condition
- 647.42 Malaria in the mother, delivered, with mention of postpartum complication
- 647.43 Malaria in the mother, antepartum condition or complication
- 647.44 Malaria in the mother, postpartum condition or complication
- 647.50 Rubella in the mother, unspecified as to episode of care or not applicable
- 647.51 Rubella in the mother, delivered, with or without mention of antepartum condition
- 647.52 Rubella in the mother, delivered, with mention of postpartum complication
- 647.53 Rubella in the mother, antepartum condition or complication
- 647.54 Rubella in the mother, postpartum condition or complication
- 647.60 Other viral diseases in the mother, unspecified as to episode of care or not applicable
- 647.61 Other viral diseases in the mother, delivered, with or without mention of antepartum condition
- 647.62 Other viral diseases in the mother, delivered, with mention of postpartum complication
- 647.63 Other viral diseases in the mother, antepartum condition or complication
- 647.64 Other viral diseases in the mother, postpartum condition or complication
- 647.80 Other specified infectious and parasitic diseases of mother, unspecified as to episode of care or not applicable
- 647.81 Other specified infectious and parasitic diseases of mother, delivered, with or without mention of antepartum condition
- 647.82 Other specified infectious and parasitic diseases of mother, delivered, with mention of postpartum complication
- 647.83 Other specified infectious and parasitic diseases of mother, antepartum condition or complication
- 647.84 Other specified infectious and parasitic diseases of mother, postpartum condition or complication

- 647.90 Unspecified infection or infestation of mother, unspecified as to episode of care or not applicable
- 647.91 Unspecified infection or infestation of mother, delivered, with or without mention of antepartum condition
- 647.92 Unspecified infection or infestation of mother, delivered, with mention of postpartum complication
- 647.93 Unspecified infection or infestation of mother, antepartum condition or complication
- 647.94 Unspecified infection or infestation of mother, postpartum condition or complication

Sexually transmitted diseases in pregnancy

- 647.00 Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 647.01 Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 647.02 Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 647.03 Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 647.04 Syphilis of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
- 647.10 Gonorrhea of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 647.11 Gonorrhea of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 647.12 Gonorrhea of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 647.13 Gonorrhea of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 647.14 Gonorrhea of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
- 647.20 Other venereal diseases of mother, complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable

- 647.21 Other venereal diseases of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 647.22 Other venereal diseases of mother, complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 647.23 Other venereal diseases of mother, complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 647.24 Other venereal diseases of mother, complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

Neurologic complications in pregnancy

- 646.40 Peripheral neuritis in pregnancy, unspecified as to episode of care or not applicable
- 646.41 Peripheral neuritis in pregnancy, delivered, with or without mention of antepartum condition
- 646.42 Peripheral neuritis in pregnancy, delivered, with mention of postpartum complication
- 646.43 Peripheral neuritis in pregnancy, antepartum condition or complication
- 646.44 Peripheral neuritis in pregnancy, postpartum condition or complication
- 649.40 Epilepsy complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 649.41 Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 649.42 Epilepsy complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 649.43 Epilepsy complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 649.44 Epilepsy complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication

Addictions in pregnancy - drugs

- 648.30 Drug dependence of mother, unspecified as to episode of care or not applicable
- 648.31 Drug dependence of mother, delivered, with or without mention of antepartum condition
- 648.32 Drug dependence of mother, delivered, with mention of postpartum complication
- 648.33 Drug dependence of mother, antepartum condition or complication
- 648.34 Drug dependence of mother, postpartum condition or complication

Addictions in pregnancy - tobacco

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- 649.00 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 649.01 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 649.02 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 649.03 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 649.04 Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
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Anemia or coagulation disorder of pregnancy

- 649.30 Coagulation defects complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable
- 649.31 Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition
- 649.32 Coagulation defects complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication
- 649.33 Coagulation defects complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication
- 649.34 Coagulation defects complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication
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C-section delivery prior to 37 weeks

- 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
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C-section delivery after 37 weeks

- 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
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Mental health disorder of mother

- 648.40 Mental disorders of mother, unspecified as to episode of care or not applicable
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- 648.41 Mental disorders of mother, delivered, with or without mention of antepartum condition
- 648.42 Mental disorders of mother, delivered, with mention of postpartum complication
- 648.43 Mental disorders of mother, antepartum condition or complication
- 648.44 Mental disorders of mother, postpartum condition or complication

Abbreviation: ICD-9-CM = International Classification of Diseases, Ninth Revision, Clinical
Modification

Table e-5. Clinically relevant, categorized ICD-9-CM codes for complications during labor and delivery

Fetal malposition or disproportion	
652.00	Unstable lie, unspecified as to episode of care or not applicable
652.01	Unstable lie, delivered, with or without mention of antepartum condition
652.03	Unstable lie, antepartum condition or complication
652.10	Breech or other malpresentation successfully converted to cephalic presentation, unspecified as to episode of care or not applicable
652.11	Breech or other malpresentation successfully converted to cephalic presentation, delivered, with or without mention of antepartum condition
652.13	Breech or other malpresentation successfully converted to cephalic presentation, antepartum condition or complication
652.20	Breech presentation without mention of version, unspecified as to episode of care or not applicable
652.21	Breech presentation without mention of version, delivered, with or without mention of antepartum condition
652.23	Breech presentation without mention of version, antepartum condition or complication
652.30	Transverse or oblique presentation, unspecified as to episode of care or not applicable
652.31	Transverse or oblique presentation, delivered, with or without mention of antepartum condition
652.33	Transverse or oblique presentation, antepartum condition or complication
652.40	Face or brow presentation, unspecified as to episode of care or not applicable
652.41	Face or brow presentation, delivered, with or without mention of antepartum condition
652.43	Face or brow presentation, antepartum condition or complication
652.50	High head at term, unspecified as to episode of care or not applicable
652.51	High head at term, delivered, with or without mention of antepartum condition
652.53	High head at term, antepartum condition or complication
652.60	Multiple gestation with malpresentation of one fetus or more, unspecified as to episode of care or not applicable
652.61	Multiple gestation with malpresentation of one fetus or more, delivered, with or without mention of antepartum condition

- 652.63 Multiple gestation with malpresentation of one fetus or more, antepartum condition or complication
- 652.70 Prolapsed arm of fetus, unspecified as to episode of care or not applicable
- 652.71 Prolapsed arm of fetus, delivered, with or without mention of antepartum condition
- 652.73 Prolapsed arm of fetus, antepartum condition or complication
- 652.80 Other specified malposition or malpresentation, unspecified as to episode of care or not applicable
- 652.81 Other specified malposition or malpresentation, delivered, with or without mention of antepartum condition
- 652.83 Other specified malposition or malpresentation, antepartum condition or complication
- 652.90 Unspecified malposition or malpresentation, unspecified as to episode of care or not applicable
- 652.91 Unspecified malposition or malpresentation, delivered, with or without mention of antepartum condition
- 652.93 Unspecified malposition or malpresentation, antepartum condition or complication
- 653.40 Fetopelvic disproportion, unspecified as to episode of care or not applicable
- 653.41 Fetopelvic disproportion, delivered, with or without mention of antepartum condition
- 653.43 Fetopelvic disproportion, antepartum condition or complication
- 653.50 Unusually large fetus causing disproportion, unspecified as to episode of care or not applicable
- 653.51 Unusually large fetus causing disproportion, delivered, with or without mention of antepartum condition
- 653.53 Unusually large fetus causing disproportion, antepartum condition or complication
- 653.60 Hydrocephalic fetus causing disproportion, unspecified as to episode of care or not applicable
- 653.61 Hydrocephalic fetus causing disproportion, delivered, with or without mention of antepartum condition
- 653.63 Hydrocephalic fetus causing disproportion, antepartum condition or complication
- 653.70 Other fetal abnormality causing disproportion, unspecified as to episode of care or not applicable
- 653.71 Other fetal abnormality causing disproportion, delivered, with or without mention of antepartum condition
- 653.73 Other fetal abnormality causing disproportion, antepartum condition or complication

- 656.50 Poor fetal growth, affecting management of mother, unspecified as to episode of care or not applicable
- 656.51 Poor fetal growth, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.53 Poor fetal growth, affecting management of mother, antepartum condition or complication
- 656.60 Excessive fetal growth, affecting management of mother, unspecified as to episode of care or not applicable
- 656.61 Excessive fetal growth, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.63 Excessive fetal growth, affecting management of mother, antepartum condition or complication
- 659.70 Abnormality in fetal heart rate or rhythm, unspecified as to episode of care or not applicable
- 659.71 Abnormality in fetal heart rate or rhythm, delivered, with or without mention of antepartum condition
- 659.73 Abnormality in fetal heart rate or rhythm, antepartum condition or complication
- 660.00 Obstruction caused by malposition of fetus at onset of labor, unspecified as to episode of care or not applicable
- 660.01 Obstruction caused by malposition of fetus at onset of labor, delivered, with or without mention of antepartum condition
- 660.03 Obstruction caused by malposition of fetus at onset of labor, antepartum condition or complication
- 660.30 Deep transverse arrest and persistent occipitoposterior position, unspecified as to episode of care or not applicable
- 660.31 Deep transverse arrest and persistent occipitoposterior position, delivered, with or without mention of antepartum condition
- 660.33 Deep transverse arrest and persistent occipitoposterior position, antepartum condition or complication
- 660.50 Locked twins, unspecified as to episode of care or not applicable
- 660.51 Locked twins, delivered, with or without mention of antepartum condition
- 660.53 Locked twins, antepartum condition or complication

Maternal factors complicating delivery

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- 653.00 Major abnormality of bony pelvis, not further specified, unspecified as to episode of care or not applicable
 - 653.01 Major abnormality of bony pelvis, not further specified, delivered, with or without mention of antepartum condition
 - 653.03 Major abnormality of bony pelvis, not further specified, antepartum condition or complication
 - 653.10 Generally contracted pelvis, unspecified as to episode of care or not applicable
 - 653.11 Generally contracted pelvis, delivered, with or without mention of antepartum condition
 - 653.13 Generally contracted pelvis, antepartum condition or complication
 - 653.20 Inlet contraction of pelvis, unspecified as to episode of care or not applicable
 - 653.21 Inlet contraction of pelvis, delivered, with or without mention of antepartum condition
 - 653.23 Inlet contraction of pelvis, antepartum condition or complication
 - 653.30 Outlet contraction of pelvis, unspecified as to episode of care or not applicable
 - 653.31 Outlet contraction of pelvis, delivered, with or without mention of antepartum condition
 - 653.33 Outlet contraction of pelvis, antepartum condition or complication
 - 654.00 Congenital abnormalities of uterus, unspecified as to episode of care or not applicable
 - 654.01 Congenital abnormalities of uterus, delivered, with or without mention of antepartum condition
 - 654.02 Congenital abnormalities of uterus, delivered, with mention of postpartum complication
 - 654.03 Congenital abnormalities of uterus, antepartum condition or complication
 - 654.04 Congenital abnormalities of uterus, postpartum condition or complication
 - 654.10 Tumors of body of uterus, unspecified as to episode of care or not applicable
 - 654.11 Tumors of body of uterus, delivered, with or without mention of antepartum condition
 - 654.12 Tumors of body of uterus, delivered, with mention of postpartum complication
 - 654.13 Tumors of body of uterus, antepartum condition or complication
 - 654.14 Tumors of body of uterus, postpartum condition or complication
 - 654.20 Previous cesarean delivery, unspecified as to episode of care or not applicable
 - 654.21 Previous cesarean delivery, delivered, with or without mention of antepartum condition
 - 654.23 Previous cesarean delivery, antepartum condition or complication
 - 654.30 Retroverted and incarcerated gravid uterus, unspecified as to episode of care or not applicable
 - 654.31 Retroverted and incarcerated gravid uterus, delivered, with mention of antepartum condition
 - 654.32 Retroverted and incarcerated gravid uterus, delivered, with mention of postpartum complication
 - 654.33 Retroverted and incarcerated gravid uterus, antepartum condition or complication

- 654.34 Retroverted and incarcerated gravid uterus, postpartum condition or complication
- 654.40 Other abnormalities in shape or position of gravid uterus and of neighboring structures, unspecified as to episode of care or not applicable
- 654.41 Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with or without mention of antepartum condition
- 654.42 Other abnormalities in shape or position of gravid uterus and of neighboring structures, delivered, with mention of postpartum complication
- 654.43 Other abnormalities in shape or position of gravid uterus and of neighboring structures, antepartum condition or complication
- 654.44 Other abnormalities in shape or position of gravid uterus and of neighboring structures, postpartum condition or complication
- 654.50 Cervical incompetence, unspecified as to episode of care or not applicable
- 654.51 Cervical incompetence, delivered, with or without mention of antepartum condition
- 654.52 Cervical incompetence, delivered, with mention of postpartum complication
- 654.53 Cervical incompetence, antepartum condition or complication
- 654.54 Cervical incompetence, postpartum condition or complication
- 654.60 Other congenital or acquired abnormality of cervix, unspecified as to episode of care or not applicable
- 654.61 Other congenital or acquired abnormality of cervix, delivered, with or without mention of antepartum condition
- 654.62 Other congenital or acquired abnormality of cervix, delivered, with mention of postpartum complication
- 654.63 Other congenital or acquired abnormality of cervix, antepartum condition or complication
- 654.64 Other congenital or acquired abnormality of cervix, postpartum condition or complication
- 654.70 Congenital or acquired abnormality of vagina, unspecified as to episode of care or not applicable
- 654.71 Congenital or acquired abnormality of vagina, delivered, with or without mention of antepartum condition
- 654.72 Congenital or acquired abnormality of vagina, delivered, with mention of postpartum complication
- 654.73 Congenital or acquired abnormality of vagina, antepartum condition or complication

- 654.74 Congenital or acquired abnormality of vagina, postpartum condition or complication
- 654.80 Congenital or acquired abnormality of vulva, unspecified as to episode of care or not applicable
- 654.81 Congenital or acquired abnormality of vulva, delivered, with or without mention of antepartum condition
- 654.82 Congenital or acquired abnormality of vulva, delivered, with mention of postpartum complication
- 654.83 Congenital or acquired abnormality of vulva, antepartum condition or complication
- 654.84 Congenital or acquired abnormality of vulva, postpartum condition or complication
- 654.90 Other and unspecified abnormality of organs and soft tissues of pelvis, unspecified as to episode of care or not applicable
- 654.91 Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with or without mention of antepartum condition
- 654.92 Other and unspecified abnormality of organs and soft tissues of pelvis, delivered, with mention of postpartum complication
- 654.93 Other and unspecified abnormality of organs and soft tissues of pelvis, antepartum condition or complication
- 654.94 Other and unspecified abnormality of organs and soft tissues of pelvis, postpartum condition or complication
- 659.00 Failed mechanical induction of labor, unspecified as to episode of care or not applicable
- 659.01 Failed mechanical induction of labor, delivered, with or without mention of antepartum condition
- 659.03 Failed mechanical induction of labor, antepartum condition or complication
- 659.10 Failed medical or unspecified induction of labor, unspecified as to episode of care or not applicable
- 659.11 Failed medical or unspecified induction of labor, delivered, with or without mention of antepartum condition
- 659.13 Failed medical or unspecified induction of labor, antepartum condition or complication
- 659.20 Maternal pyrexia during labor, unspecified, unspecified as to episode of care or not applicable
- 659.21 Maternal pyrexia during labor, unspecified, delivered, with or without mention of antepartum condition
- 659.23 Maternal pyrexia during labor, unspecified, antepartum condition or complication

- 659.30 Generalized infection during labor, unspecified as to episode of care or not applicable
- 659.31 Generalized infection during labor, delivered, with or without mention of antepartum condition
- 659.33 Generalized infection during labor, antepartum condition or complication
- 659.40 Grand multiparity, unspecified as to episode of care or not applicable
- 659.41 Grand multiparity, delivered, with or without mention of antepartum condition
- 659.43 Grand multiparity, antepartum condition or complication
- 659.50 Elderly primigravida, unspecified as to episode of care or not applicable
- 659.51 Elderly primigravida, delivered, with or without mention of antepartum condition
- 659.53 Elderly primigravida, antepartum condition or complication
- 659.60 Elderly multigravida, unspecified as to episode of care or not applicable
- 659.61 Elderly multigravida, delivered with or without mention of antepartum condition
- 659.63 Elderly multigravida, antepartum condition or complication
- 660.10 Obstruction by bony pelvis during labor, unspecified as to episode of care or not applicable
- 660.11 Obstruction by bony pelvis during labor, delivered, with or without mention of antepartum condition
- 660.13 Obstruction by bony pelvis during labor, antepartum condition or complication
- 660.20 Obstruction by abnormal pelvic soft tissues during labor, unspecified as to episode of care or not applicable
- 660.21 Obstruction by abnormal pelvic soft tissues during labor, delivered, with or without mention of antepartum condition
- 660.23 Obstruction by abnormal pelvic soft tissues during labor, antepartum condition or complication
- 660.60 Unspecified failed trial of labor, unspecified as to episode of care or not applicable
- 660.61 Unspecified failed trial of labor, delivered, with or without mention of antepartum condition
- 660.63 Unspecified failed trial of labor, antepartum condition or complication
- 660.70 Failed forceps or vacuum extractor, unspecified, unspecified as to episode of care or not applicable
- 660.71 Failed forceps or vacuum extractor, unspecified, delivered, with or without mention of antepartum condition
- 660.73 Failed forceps or vacuum extractor, unspecified, antepartum condition or complication
- 660.80 Other causes of obstructed labor, unspecified as to episode of care or not applicable
- 660.81 Other causes of obstructed labor, delivered, with or without mention of antepartum condition

- 660.83 Other causes of obstructed labor, antepartum condition or complication
- 660.90 Unspecified obstructed labor, unspecified as to episode of care or not applicable
- 660.91 Unspecified obstructed labor, delivered, with or without mention of antepartum condition
- 660.93 Unspecified obstructed labor, antepartum condition or complication
- 661.00 Primary uterine inertia, unspecified as to episode of care or not applicable
- 661.01 Primary uterine inertia, delivered, with or without mention of antepartum condition
- 661.03 Primary uterine inertia, antepartum condition or complication
- 661.10 Secondary uterine inertia, unspecified as to episode of care or not applicable
- 661.11 Secondary uterine inertia, delivered, with or without mention of antepartum condition
- 661.13 Secondary uterine inertia, antepartum condition or complication
- 661.20 Other and unspecified uterine inertia, unspecified as to episode of care or not applicable
- 661.21 Other and unspecified uterine inertia, delivered, with or without mention of antepartum condition
- 661.23 Other and unspecified uterine inertia, antepartum condition or complication
- 661.30 Precipitate labor, unspecified as to episode of care or not applicable
- 661.31 Precipitate labor, delivered, with or without mention of antepartum condition
- 661.33 Precipitate labor, antepartum condition or complication
- 661.40 Hypertonic, incoordinate, or prolonged uterine contractions, unspecified as to episode of care or not applicable
- 661.41 Hypertonic, incoordinate, or prolonged uterine contractions, delivered, with or without mention of antepartum condition
- 661.43 Hypertonic, incoordinate, or prolonged uterine contractions, antepartum condition or complication
- 661.90 Unspecified abnormality of labor, unspecified as to episode of care or not applicable
- 661.91 Unspecified abnormality of labor, delivered, with or without mention of antepartum condition
- 661.93 Unspecified abnormality of labor, antepartum condition or complication
- 662.00 Prolonged first stage of labor, unspecified as to episode of care or not applicable
- 662.01 Prolonged first stage of labor, delivered, with or without mention of antepartum condition
- 662.03 Prolonged first stage of labor, antepartum condition or complication
- 662.10 Unspecified prolonged labor, unspecified as to episode of care or not applicable
- 662.11 Unspecified prolonged labor, delivered, with or without mention of antepartum condition

- 662.13 Unspecified prolonged labor, antepartum condition or complication
- 662.20 Prolonged second stage of labor, unspecified as to episode of care or not applicable
- 662.21 Prolonged second stage of labor, delivered, with or without mention of antepartum condition
- 662.23 Prolonged second stage of labor, antepartum condition or complication
- 662.30 Delayed delivery of second twin, triplet, etc., unspecified as to episode of care or not applicable
- 662.31 Delayed delivery of second twin, triplet, etc., delivered, with or without mention of antepartum condition
- 662.33 Delayed delivery of second twin, triplet, etc., antepartum condition or complication
- 663.00 Prolapse of cord complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.01 Prolapse of cord complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.03 Prolapse of cord complicating labor and delivery, antepartum condition or complication
- 663.10 Cord around neck with compression, complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.11 Cord around neck, with compression, complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.13 Cord around neck, with compression, complicating labor and delivery, antepartum condition or complication
- 663.20 Other and unspecified cord entanglement, with compression, complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.21 Other and unspecified cord entanglement, with compression, complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.23 Other and unspecified cord entanglement, with compression, complicating labor and delivery, antepartum condition or complication
- 663.30 Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.31 Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.33 Other and unspecified cord entanglement, without mention of compression, complicating labor and delivery, antepartum condition or complication

- 663.40 Short cord complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.41 Short cord complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.43 Short cord complicating labor and delivery, antepartum condition or complication
- 663.50 Vasa previa complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.51 Vasa previa complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.53 Vasa previa complicating labor and delivery, antepartum condition or complication
- 663.60 Vascular lesions of cord complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.61 Vascular lesions of cord complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.63 Vascular lesions of cord complicating labor and delivery, antepartum condition or complication
- 663.80 Other umbilical cord complications complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.81 Other umbilical cord complications complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.83 Other umbilical cord complications complicating labor and delivery, antepartum condition or complication
- 663.90 Unspecified umbilical cord complication complicating labor and delivery, unspecified as to episode of care or not applicable
- 663.91 Unspecified umbilical cord complication complicating labor and delivery, delivered, with or without mention of antepartum condition
- 663.93 Unspecified umbilical cord complication complicating labor and delivery, antepartum condition or complication
- 665.00 Rupture of uterus before onset of labor, unspecified as to episode of care or not applicable
- 665.01 Rupture of uterus before onset of labor, delivered, with or without mention of antepartum condition
- 665.03 Rupture of uterus before onset of labor, antepartum condition or complication
- 665.10 Rupture of uterus during labor, unspecified as to episode of care or not applicable
- 665.11 Rupture of uterus during labor, delivered, with or without mention of antepartum condition

- 665.20 Inversion of uterus, unspecified as to episode of care or not applicable
- 665.22 Inversion of uterus, delivered, with mention of postpartum complication
- 665.24 Inversion of uterus, postpartum condition or complication
- 669.00 Maternal distress complicating labor and delivery, unspecified as to episode of care or not applicable
- 669.01 Maternal distress complicating labor and delivery, delivered, with or without mention of antepartum condition
- 669.02 Maternal distress complicating labor and delivery, delivered, with mention of postpartum complication
- 669.03 Maternal distress complicating labor and delivery, antepartum condition or complication
- 669.04 Maternal distress complicating labor and delivery, postpartum condition or complication
- 669.10 Shock during or following labor and delivery, unspecified as to episode of care or not applicable
- 669.11 Shock during or following labor and delivery, delivered, with or without mention of antepartum condition
- 669.12 Shock during or following labor and delivery, delivered, with mention of postpartum complication
- 669.13 Shock during or following labor and delivery, antepartum condition or complication
- 669.14 Shock during or following labor and delivery, postpartum condition or complication
- 669.20 Maternal hypotension syndrome, unspecified as to episode of care or not applicable
- 669.21 Maternal hypotension syndrome, delivered, with or without mention of antepartum condition
- 669.22 Maternal hypotension syndrome, delivered, with mention of postpartum complication
- 669.23 Maternal hypotension syndrome, antepartum condition or complication
- 669.24 Maternal hypotension syndrome, postpartum condition or complication
- 669.30 Acute kidney failure following labor and delivery, unspecified as to episode of care or not applicable
- 669.32 Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication
- 669.34 Acute kidney failure following labor and delivery, postpartum condition or complication
- 669.40 Other complications of obstetrical surgery and procedures, unspecified as to episode of care or not applicable

- 669.41 Other complications of obstetrical surgery and procedures, delivered, with or without mention of antepartum condition
- 669.42 Other complications of obstetrical surgery and procedures, delivered, with mention of postpartum complication
- 669.43 Other complications of obstetrical surgery and procedures, antepartum condition or complication
- 669.44 Other complications of obstetrical surgery and procedures, postpartum condition or complication
- 669.80 Other complications of labor and delivery, unspecified as to episode of care or not applicable
- 669.81 Other complications of labor and delivery, delivered, with or without mention of antepartum condition
- 669.82 Other complications of labor and delivery, delivered, with mention of postpartum complication
- 669.83 Other complications of labor and delivery, antepartum condition or complication
- 669.84 Other complications of labor and delivery, postpartum condition or complication
- 669.90 Unspecified complication of labor and delivery, unspecified as to episode of care or not applicable
- 669.91 Unspecified complication of labor and delivery, delivered, with or without mention of antepartum condition
- 669.92 Unspecified complication of labor and delivery, delivered, with mention of postpartum complication
- 669.93 Unspecified complication of labor and delivery, antepartum condition or complication
- 669.94 Unspecified complication of labor and delivery, postpartum condition or complication

Congenital/hereditary fetal malformations

- 655.00 Central nervous system malformation in fetus, unspecified as to episode of care or not applicable
- 655.01 Central nervous system malformation in fetus, delivered, with or without mention of antepartum condition
- 655.03 Central nervous system malformation in fetus, antepartum condition or complication
- 655.10 Chromosomal abnormality in fetus, affecting management of mother, unspecified as to episode of care or not applicable

- 655.11 Chromosomal abnormality in fetus, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.13 Chromosomal abnormality in fetus, affecting management of mother, antepartum condition or complication
- 655.20 Hereditary disease in family possibly affecting fetus, affecting management of mother, unspecified as to episode of care or not applicable
- 655.21 Hereditary disease in family possibly affecting fetus, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.23 Hereditary disease in family possibly affecting fetus, affecting management of mother, antepartum condition or complication

Acquired damage to the fetus (infection, position)

- 655.30 Suspected damage to fetus from viral disease in the mother, affecting management of mother, unspecified as to episode of care or not applicable
- 655.31 Suspected damage to fetus from viral disease in the mother, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.33 Suspected damage to fetus from viral disease in the mother, affecting management of mother, antepartum condition or complication
- 655.40 Suspected damage to fetus from other disease in the mother, affecting management of mother, unspecified as to episode of care or not applicable
- 655.41 Suspected damage to fetus from other disease in the mother, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.43 Suspected damage to fetus from other disease in the mother, affecting management of mother, antepartum condition or complication
- 655.50 Suspected damage to fetus from drugs, affecting management of mother, unspecified as to episode of care or not applicable
- 655.51 Suspected damage to fetus from drugs, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.53 Suspected damage to fetus from drugs, affecting management of mother, antepartum condition or complication
- 655.60 Suspected damage to fetus from radiation, affecting management of mother, unspecified as to episode of care or not applicable

- 655.61 Suspected damage to fetus from radiation, affecting management of mother, delivered,
- 655.63 Suspected damage to fetus from radiation, affecting management of mother, antepartum condition or complication
- 655.80 Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, unspecified as to episode of care or not applicable
- 655.81 Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.83 Other known or suspected fetal abnormality, not elsewhere classified, affecting management of mother, antepartum condition or complication
- 655.90 Unspecified suspected fetal abnormality, affecting management of mother, unspecified as to episode of care or not applicable
- 655.91 Unspecified suspected fetal abnormality, affecting management of mother, delivered, with or without mention of antepartum condition
- 655.93 Unspecified suspected fetal abnormality, affecting management of mother, antepartum condition or complication
- 656.30 Fetal distress, affecting management of mother, unspecified as to episode of care or not applicable
- 656.31 Fetal distress, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.33 Fetal distress, affecting management of mother, antepartum condition or complication
- 660.40 Shoulder (girdle) dystocia, unspecified as to episode of care or not applicable
- 660.41 Shoulder (girdle) dystocia, delivered, with or without mention of antepartum condition
- 660.43 Shoulder (girdle) dystocia, antepartum condition or complication

Hemorrhage

- 656.00 Fetal-maternal hemorrhage, unspecified as to episode of care or not applicable
- 656.01 Fetal-maternal hemorrhage, delivered, with or without mention of antepartum condition
- 656.03 Fetal-maternal hemorrhage, antepartum condition or complication
- 656.10 Rhesus isoimmunization, unspecified as to episode of care or not applicable
- 656.11 Rhesus isoimmunization, delivered, with or without mention of antepartum condition
- 656.13 Rhesus isoimmunization, antepartum condition or complication

- 656.20 Isoimmunization from other and unspecified blood-group incompatibility, unspecified as to episode of care or not applicable
- 656.21 Isoimmunization from other and unspecified blood-group incompatibility, delivered, with or without mention of antepartum condition
- 656.23 Isoimmunization from other and unspecified blood-group incompatibility, antepartum condition or complication
- 665.70 Pelvic hematoma, unspecified as to episode of care or not applicable
- 665.71 Pelvic hematoma, delivered, with or without mention of antepartum condition
- 665.72 Pelvic hematoma, delivered with mention of postpartum complication
- 665.74 Pelvic hematoma, postpartum condition or complication
- 666.00 Third-stage postpartum hemorrhage, unspecified as to episode of care or not applicable
- 666.02 Third-stage postpartum hemorrhage, delivered, with mention of postpartum complication
- 666.04 Third-stage postpartum hemorrhage, postpartum condition or complication
- 666.10 Other immediate postpartum hemorrhage, unspecified as to episode of care or not applicable
- 666.12 Other immediate postpartum hemorrhage, delivered, with mention of postpartum complication
- 666.14 Other immediate postpartum hemorrhage, postpartum condition or complication
- 666.20 Delayed and secondary postpartum hemorrhage, unspecified as to episode of care or not applicable
- 666.22 Delayed and secondary postpartum hemorrhage, delivered, with mention of postpartum complication
- 666.24 Delayed and secondary postpartum hemorrhage, postpartum condition or complication
- 666.30 Postpartum coagulation defects, unspecified as to episode of care or not applicable
- 666.32 Postpartum coagulation defects, delivered, with mention of postpartum complication
- 666.34 Postpartum coagulation defects, postpartum condition or complication

Intrauterine death

- 656.40 Intrauterine death, affecting management of mother, unspecified as to episode of care or not applicable
 - 656.41 Intrauterine death, affecting management of mother, delivered, with or without mention of antepartum condition
 - 656.43 Intrauterine death, affecting management of mother, antepartum condition or complication
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Placental issues

- 656.70 Other placental conditions, affecting management of mother, unspecified as to episode of care or not applicable
- 656.71 Other placental conditions, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.73 Other placental conditions, affecting management of mother, antepartum condition or complication
- 656.80 Other specified fetal and placental problems, affecting management of mother, unspecified as to episode of care or not applicable
- 656.81 Other specified fetal and placental problems, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.83 Other specified fetal and placental problems, affecting management of mother, antepartum condition or complication
- 656.90 Unspecified fetal and placental problem, affecting management of mother, unspecified as to episode of care or not applicable
- 656.91 Unspecified fetal and placental problem, affecting management of mother, delivered, with or without mention of antepartum condition
- 656.93 Unspecified fetal and placental problem, affecting management of mother, antepartum condition or complication
- 667.00 Retained placenta without hemorrhage, unspecified as to episode of care or not applicable
- 667.02 Retained placenta without hemorrhage, delivered, with mention of postpartum complication
- 667.04 Retained placenta without hemorrhage, postpartum condition or complication
- 667.10 Retained portions of placenta or membranes, without hemorrhage, unspecified as to episode of care or not applicable
- 667.12 Retained portions of placenta or membranes, without hemorrhage, delivered, with mention of postpartum complication
- 667.14 Retained portions of placenta or membranes, without hemorrhage, postpartum condition or complication

Amniotic cavity and fluid problems

- 657.00 Polyhydramnios, unspecified as to episode of care or not applicable
- 657.01 Polyhydramnios, delivered, with or without mention of antepartum condition

- 657.03 Polyhydramnios, antepartum condition or complication
- 658.00 Oligohydramnios, unspecified as to episode of care or not applicable
- 658.01 Oligohydramnios, delivered, with or without mention of antepartum condition
- 658.03 Oligohydramnios, antepartum condition or complication
- 658.10 Premature rupture of membranes, unspecified as to episode of care or not applicable
- 658.11 Premature rupture of membranes, delivered, with or without mention of antepartum condition
- 658.13 Premature rupture of membranes, antepartum condition or complication
- 658.20 Delayed delivery after spontaneous or unspecified rupture of membranes, unspecified as to episode of care or not applicable
- 658.21 Delayed delivery after spontaneous or unspecified rupture of membranes, delivered, with or without mention of antepartum condition
- 658.23 Delayed delivery after spontaneous or unspecified rupture of membranes, antepartum condition or complication
- 658.30 Delayed delivery after artificial rupture of membranes, unspecified as to episode of care or not applicable
- 658.31 Delayed delivery after artificial rupture of membranes, delivered, with or without mention of antepartum condition
- 658.33 Delayed delivery after artificial rupture of membranes, antepartum condition or complication
- 658.40 Infection of amniotic cavity, unspecified as to episode of care or not applicable
- 658.41 Infection of amniotic cavity, delivered, with or without mention of antepartum condition
- 658.43 Infection of amniotic cavity, antepartum condition or complication
- 658.80 Other problems associated with amniotic cavity and membranes, unspecified as to episode of care or not applicable
- 658.81 Other problems associated with amniotic cavity and membranes, delivered, with or without mention of antepartum condition
- 658.83 Other problems associated with amniotic cavity and membranes, antepartum
- 658.90 Unspecified problem associated with amniotic cavity and membranes, unspecified as to episode of care or not applicable
- 658.91 Unspecified problem associated with amniotic cavity and membranes, delivered, with or without mention of antepartum condition

658.93 Unspecified problem associated with amniotic cavity and membranes, antepartum condition or complication

Post-partum lacerations, damage to pelvis

664.00 First-degree perineal laceration, unspecified as to episode of care or not applicable

664.01 First-degree perineal laceration, delivered, with or without mention of antepartum condition

664.04 First-degree perineal laceration, postpartum condition or complication

664.10 Second-degree perineal laceration, unspecified as to episode of care or not applicable

664.11 Second-degree perineal laceration, delivered, with or without mention of antepartum condition

664.14 Second-degree perineal laceration, postpartum condition or complication

664.20 Third-degree perineal laceration, unspecified as to episode of care or not applicable

664.21 Third-degree perineal laceration, delivered, with or without mention of antepartum condition

664.24 Third-degree perineal laceration, postpartum condition or complication

664.30 Fourth-degree perineal laceration, unspecified as to episode of care or not applicable

664.31 Fourth-degree perineal laceration, delivered, with or without mention of antepartum condition

664.34 Fourth-degree perineal laceration, postpartum condition or complication

664.40 Unspecified perineal laceration, unspecified as to episode of care or not applicable

664.41 Unspecified perineal laceration, delivered, with or without mention of antepartum condition

664.44 Unspecified perineal laceration, postpartum condition or complication

664.50 Vulvar and perineal hematoma, unspecified as to episode of care or not applicable

664.51 Vulvar and perineal hematoma, delivered, with or without mention of antepartum condition

664.54 Vulvar and perineal hematoma, postpartum condition or complication

664.60 Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration, unspecified as to episode of care or not applicable

664.61 Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration, delivered, with or without mention of antepartum condition

664.64 Anal sphincter tear complicating delivery, not associated with third-degree perineal laceration, postpartum condition or complication

664.80 Other specified trauma to perineum and vulva, unspecified as to episode of care or not applicable

- 664.81 Other specified trauma to perineum and vulva, delivered, with or without mention of antepartum condition
 - 664.84 Other specified trauma to perineum and vulva, postpartum condition or complication
 - 664.90 Unspecified trauma to perineum and vulva, unspecified as to episode of care or not applicable
 - 664.91 Unspecified trauma to perineum and vulva, delivered, with or without mention of antepartum condition
 - 664.94 Unspecified trauma to perineum and vulva, postpartum condition or complication
 - 665.30 Laceration of cervix, unspecified as to episode of care or not applicable
 - 665.31 Laceration of cervix, delivered, with or without mention of antepartum condition
 - 665.34 Laceration of cervix, postpartum condition or complication
 - 665.40 High vaginal laceration, unspecified as to episode of care or not applicable
 - 665.41 High vaginal laceration, delivered, with or without mention of antepartum condition
 - 665.44 High vaginal laceration, postpartum condition or complication
 - 665.50 Other injury to pelvic organs, unspecified as to episode of care or not applicable
 - 665.51 Other injury to pelvic organs, delivered, with or without mention of antepartum condition
 - 665.54 Other injury to pelvic organs, postpartum condition or complication
 - 665.60 Damage to pelvic joints and ligaments, unspecified as to episode of care or not applicable
 - 665.61 Damage to pelvic joints and ligaments, delivered, with or without mention of antepartum condition
 - 665.64 Damage to pelvic joints and ligaments, postpartum condition or complication
 - 665.80 Other specified obstetrical trauma, unspecified as to episode of care or not applicable
 - 665.81 Other specified obstetrical trauma, delivered, with or without mention of antepartum condition
 - 665.82 Other specified obstetrical trauma, delivered, with mention of postpartum complication
 - 665.83 Other specified obstetrical trauma, antepartum condition or complication
 - 665.84 Other specified obstetrical trauma, postpartum condition or complication
 - 665.90 Unspecified obstetrical trauma, unspecified as to episode of care or not applicable
 - 665.91 Unspecified obstetrical trauma, delivered, with or without mention of antepartum condition
 - 665.92 Unspecified obstetrical trauma, delivered, with mention of postpartum complication
 - 665.93 Unspecified obstetrical trauma, antepartum condition or complication
 - 665.94 Unspecified obstetrical trauma, postpartum condition or complication
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Anesthesia complications

- 668.00 Pulmonary complications of anesthesia or other sedation in labor and delivery, unspecified as to episode of care or not applicable
- 668.01 Pulmonary complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition
- 668.02 Pulmonary complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication
- 668.03 Pulmonary complications of anesthesia or other sedation in labor and delivery, antepartum condition or complication
- 668.04 Pulmonary complications of anesthesia or other sedation in labor and delivery, postpartum condition or complication
- 668.10 Cardiac complications of anesthesia or other sedation in labor and delivery, unspecified as to episode of care or not applicable
- 668.11 Cardiac complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition
- 668.12 Cardiac complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication
- 668.13 Cardiac complications of anesthesia or other sedation in labor and delivery, antepartum condition or complication
- 668.14 Cardiac complications of anesthesia or other sedation in labor and delivery, postpartum condition or complication
- 668.20 Central nervous system complications of anesthesia or other sedation in labor and delivery, unspecified as to episode of care or not applicable
- 668.21 Central nervous system complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition
- 668.22 Central nervous system complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication
- 668.23 Central nervous system complications of anesthesia or other sedation in labor and delivery, antepartum condition or complication
- 668.24 Central nervous system complications of anesthesia or other sedation in labor and delivery, postpartum condition or complication

- 668.80 Other complications of anesthesia or other sedation in labor and delivery, unspecified as to episode of care or not applicable
- 668.81 Other complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition
- 668.82 Other complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication
- 668.83 Other complications of anesthesia or other sedation in labor and delivery, antepartum condition or complication
- 668.84 Other complications of anesthesia or other sedation in labor and delivery, postpartum condition or complication
- 668.90 Unspecified complication of anesthesia and other sedation in labor and delivery, unspecified as to episode of care or not applicable
- 668.91 Unspecified complication of anesthesia and other sedation in labor and delivery, delivered, with or without mention of antepartum condition
- 668.92 Unspecified complication of anesthesia and other sedation in labor and delivery, delivered, with mention of postpartum complication
- 668.93 Unspecified complication of anesthesia and other sedation in labor and delivery, antepartum condition or complication
- 668.94 Unspecified complication of anesthesia and other sedation in labor and delivery, postpartum condition or complication

Forceps or c-section

- 669.50 Forceps or vacuum extractor delivery without mention of indication, unspecified as to episode of care or not applicable
- 669.51 Forceps or vacuum extractor delivery without mention of indication, delivered, with or without mention of antepartum condition
- 669.60 Breech extraction, without mention of indication, unspecified as to episode of care or not applicable
- 669.61 Breech extraction, without mention of indication, delivered, with or without mention of antepartum condition
- 669.70 Cesarean delivery, without mention of indication, unspecified as to episode of care or not applicable

669.71 Cesarean delivery, without mention of indication, delivered, with or without mention of antepartum condition

Abbreviation: ICD-9-CM = International Classification of Diseases, Ninth Revision, Clinical Modification

Table e-6. Clinically relevant, categorized ICD-9-CM codes for complications during puerperium

Infectious complications	
670.04	Major puerperal infection, postpartum condition or complication
670.10	Puerperal endometritis, unspecified as to episode of care or not applicable
670.12	Puerperal endometritis, delivered, with mention of postpartum complication
670.14	Puerperal endometritis, postpartum condition or complication
670.20	Puerperal sepsis, unspecified as to episode of care or not applicable
670.22	Puerperal sepsis, delivered, with mention of postpartum complication
670.24	Puerperal sepsis, postpartum condition or complication
670.30	Puerperal septic thrombophlebitis, unspecified as to episode of care or not applicable
670.32	Puerperal septic thrombophlebitis, delivered, with mention of postpartum complication
670.34	Puerperal septic thrombophlebitis, postpartum condition or complication
670.80	Other major puerperal infection, unspecified as to episode of care or not applicable
670.82	Other major puerperal infection, delivered, with mention of postpartum complication
670.84	Other major puerperal infection, postpartum condition or complication
672.00	Pyrexia of unknown origin during the puerperium, unspecified as to episode of care or not applicable
672.02	Pyrexia of unknown origin during the puerperium, delivered, with mention of postpartum complication
672.04	Pyrexia of unknown origin during the puerperium, postpartum condition or complication
673.30	Obstetrical pyemic and septic embolism, unspecified as to episode of care or not applicable
673.31	Obstetrical pyemic and septic embolism, delivered, with or without mention of antepartum condition
673.32	Obstetrical pyemic and septic embolism, delivered, with mention of postpartum complication
673.33	Obstetrical pyemic and septic embolism, antepartum condition or complication
673.34	Obstetrical pyemic and septic embolism, postpartum condition or complication
Venous thrombosis and varicosities	
671.00	Varicose veins of legs complicating pregnancy and the puerperium, unspecified as to episode of care or not applicable

- 671.01 Varicose veins of legs complicating pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.02 Varicose veins of legs complicating pregnancy and the puerperium, delivered, with mention of postpartum complication
- 671.03 Varicose veins of legs complicating pregnancy and the puerperium, antepartum condition or complication
- 671.04 Varicose veins of legs complicating pregnancy and the puerperium, postpartum condition or complication
- 671.10 Varicose veins of vulva and perineum complicating pregnancy and the puerperium, unspecified as to episode of care or not applicable
- 671.11 Varicose veins of vulva and perineum complicating pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.12 Varicose veins of vulva and perineum complicating pregnancy and the puerperium, delivered, with mention of postpartum complication
- 671.13 Varicose veins of vulva and perineum complicating pregnancy and the puerperium, antepartum condition or complication
- 671.14 Varicose veins of vulva and perineum complicating pregnancy and the puerperium, postpartum condition or complication
- 671.20 Superficial thrombophlebitis complicating pregnancy and the puerperium, unspecified as to episode of care or not applicable
- 671.21 Superficial thrombophlebitis complicating pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.22 Superficial thrombophlebitis complicating pregnancy and the puerperium, delivered, with mention of postpartum complication
- 671.23 Superficial thrombophlebitis complicating pregnancy and the puerperium, antepartum condition or complication
- 671.24 Superficial thrombophlebitis complicating pregnancy and the puerperium, postpartum condition or complication
- 671.30 Deep phlebothrombosis, antepartum, unspecified as to episode of care or not applicable
- 671.31 Deep phlebothrombosis, antepartum, delivered, with or without mention of antepartum condition

- 671.33 Deep phlebothrombosis, antepartum, antepartum condition or complication
- 671.40 Deep phlebothrombosis, postpartum, unspecified as to episode of care or not applicable
- 671.42 Deep phlebothrombosis, postpartum, delivered, with mention of postpartum complication
- 671.44 Deep phlebothrombosis, postpartum, postpartum condition or complication
- 671.50 Other phlebitis and thrombosis complicating pregnancy and the puerperium, unspecified as to episode of care or not applicable
- 671.51 Other phlebitis and thrombosis complicating pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.52 Other phlebitis and thrombosis complicating pregnancy and the puerperium, delivered, with mention of postpartum complication
- 671.53 Other phlebitis and thrombosis complicating pregnancy and the puerperium, antepartum condition or complication
- 671.54 Other phlebitis and thrombosis complicating pregnancy and the puerperium, postpartum condition or complication
- 671.80 Other venous complications of pregnancy and the puerperium, unspecified as to episode of care or not applicable
- 671.81 Other venous complications of pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.82 Other venous complications of pregnancy and the puerperium, delivered, with mention of postpartum complication
- 671.83 Other venous complications of pregnancy and the puerperium, antepartum condition or complication
- 671.84 Other venous complications of pregnancy and the puerperium, postpartum condition or complication
- 671.90 Unspecified venous complication of pregnancy and the puerperium, unspecified as to episode of care or not applicable
- 671.91 Unspecified venous complication of pregnancy and the puerperium, delivered, with or without mention of antepartum condition
- 671.92 Unspecified venous complication of pregnancy and the puerperium, delivered, with mention of postpartum complication

- 671.93 Unspecified venous complication of pregnancy and the puerperium, antepartum condition or complication
- 671.94 Unspecified venous complication of pregnancy and the puerperium, postpartum condition or complication

Air/fluid/blood embolism, no-infectious

- 673.00 Obstetrical air embolism, unspecified as to episode of care or not applicable
- 673.01 Obstetrical air embolism, delivered, with or without mention of antepartum condition
- 673.02 Obstetrical air embolism, delivered, with mention of postpartum complication
- 673.03 Obstetrical air embolism, antepartum condition or complication
- 673.04 Obstetrical air embolism, postpartum condition or complication
- 673.10 Amniotic fluid embolism, unspecified as to episode of care or not applicable
- 673.11 Amniotic fluid embolism, delivered, with or without mention of antepartum condition

Infectious complications

- 673.12 Amniotic fluid embolism, delivered, with mention of postpartum complication
- 673.13 Amniotic fluid embolism, antepartum condition or complication
- 673.14 Amniotic fluid embolism, postpartum condition or complication
- 673.20 Obstetrical blood-clot embolism, unspecified as to episode of care or not applicable
- 673.21 Obstetrical blood-clot embolism, delivered, with or without mention of antepartum condition
- 673.22 Obstetrical blood-clot embolism, delivered, with mention of postpartum complication
- 673.23 Obstetrical blood-clot embolism, antepartum condition or complication
- 673.24 Obstetrical blood-clot embolism, postpartum condition or complication
- 673.80 Other obstetrical pulmonary embolism, unspecified as to episode of care or not applicable
- 673.81 Other obstetrical pulmonary embolism, delivered, with or without mention of antepartum condition
- 673.82 Other obstetrical pulmonary embolism, delivered, with mention of postpartum complication
- 673.83 Other obstetrical pulmonary embolism, antepartum condition or complication
- 673.84 Other obstetrical pulmonary embolism, postpartum condition or complication

Stroke

- 674.00 Cerebrovascular disorders in the puerperium, unspecified as to episode of care or not applicable
- 674.01 Cerebrovascular disorders in the puerperium, delivered, with or without mention of antepartum condition

- 674.02 Cerebrovascular disorders in the puerperium, delivered, with mention of postpartum complication
- 674.03 Cerebrovascular disorders in the puerperium, antepartum condition or complication
- 674.04 Cerebrovascular disorders in the puerperium, postpartum condition or complication

Surgical wound issues

- 674.10 Disruption of cesarean wound, unspecified as to episode of care or not applicable
- 674.12 Disruption of cesarean wound, delivered, with mention of postpartum complication
- 674.14 Disruption of cesarean wound, postpartum condition or complication
- 674.20 Disruption of perineal wound, unspecified as to episode of care or not applicable
- 674.22 Disruption of perineal wound, delivered, with mention of postpartum complication
- 674.24 Disruption of perineal wound, postpartum condition or complication
- 674.30 Other complications of obstetrical surgical wounds, unspecified as to episode of care or not applicable
- 674.32 Other complications of obstetrical surgical wounds, delivered, with mention of postpartum complication
- 674.34 Other complications of obstetrical surgical wounds, postpartum condition or complication

Cardiac complications

- 674.50 Peripartum cardiomyopathy, unspecified as to episode of care or not applicable
- 674.51 Peripartum cardiomyopathy, delivered, with or without mention of antepartum condition
- 674.52 Peripartum cardiomyopathy, delivered, with mention of postpartum condition
- 674.53 Peripartum cardiomyopathy, antepartum condition or complication
- 674.54 Peripartum cardiomyopathy, postpartum condition or complication

Breast complications

- 675.00 Infections of nipple associated with childbirth, unspecified as to episode of care or not applicable
- 675.01 Infections of nipple associated with childbirth, delivered, with or without mention of antepartum condition
- 675.02 Infections of nipple associated with childbirth, delivered, with mention of postpartum complication
- 675.03 Infections of nipple associated with childbirth, antepartum condition or complication
- 675.04 Infections of nipple associated with childbirth, postpartum condition or complication

- 675.10 Abscess of breast associated with childbirth, unspecified as to episode of care or not applicable
- 675.11 Abscess of breast associated with childbirth, delivered, with or without mention of antepartum condition
- 675.12 Abscess of breast associated with childbirth, delivered, with mention of postpartum complication
- 675.13 Abscess of breast associated with childbirth, antepartum condition or complication
- 675.14 Abscess of breast associated with childbirth, postpartum condition or complication
- 675.20 Nonpurulent mastitis associated with childbirth, unspecified as to episode of care or not applicable
- 675.21 Nonpurulent mastitis associated with childbirth, delivered, with or without mention of antepartum condition
- 675.22 Nonpurulent mastitis associated with childbirth, delivered, with mention of postpartum complication
- 675.23 Nonpurulent mastitis associated with childbirth, antepartum condition or complication
- 675.24 Nonpurulent mastitis associated with childbirth, postpartum condition or complication
- 675.80 Other specified infections of the breast and nipple associated with childbirth, unspecified as to episode of care or not applicable
- 675.81 Other specified infections of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition
- 675.82 Other specified infections of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication
- 675.83 Other specified infections of the breast and nipple associated with childbirth, antepartum condition or complication
- 675.84 Other specified infections of the breast and nipple associated with childbirth, postpartum condition or complication
- 675.90 Unspecified infection of the breast and nipple associated with childbirth, unspecified as to episode of care or not applicable
- 675.91 Unspecified infection of the breast and nipple associated with childbirth, delivered, with or without mention of antepartum condition
- 675.92 Unspecified infection of the breast and nipple associated with childbirth, delivered, with mention of postpartum complication

- 675.93 Unspecified infection of the breast and nipple associated with childbirth, antepartum condition or complication
- 675.94 Unspecified infection of the breast and nipple associated with childbirth, postpartum condition or complication

Failed, disordered or suppressed lactation

- 676.40 Failure of lactation, unspecified as to episode of care or not applicable
- 676.41 Failure of lactation, delivered, with or without mention of antepartum condition
- 676.42 Failure of lactation, delivered, with mention of postpartum complication
- 676.43 Failure of lactation, antepartum condition or complication
- 676.44 Failure of lactation, postpartum condition or complication
- 676.50 Suppressed lactation, unspecified as to episode of care or not applicable
- 676.51 Suppressed lactation, delivered, with or without mention of antepartum condition
- 676.52 Suppressed lactation, delivered, with mention of postpartum complication
- 676.53 Suppressed lactation, antepartum condition or complication
- 676.54 Suppressed lactation, postpartum condition or complication
- 676.80 Other disorders of lactation, unspecified as to episode of care or not applicable
- 676.81 Other disorders of lactation, delivered, with or without mention of antepartum condition
- 676.82 Other disorders of lactation, delivered, with mention of postpartum complication
- 676.83 Other disorders of lactation, antepartum condition or complication
- 676.84 Other disorders of lactation, postpartum condition or complication
- 676.90 Unspecified disorder of lactation, unspecified as to episode of care or not applicable
- 676.91 Unspecified disorder of lactation, delivered, with or without mention of antepartum condition
- 676.92 Unspecified disorder of lactation, delivered, with mention of postpartum complication
- 676.93 Unspecified disorder of lactation, antepartum condition or complication
- 676.94 Unspecified disorder of lactation, postpartum condition or complication

Abbreviation: ICD-9-CM = International Classification of Diseases, Ninth Revision, Clinical Modification

Table e-7. Baseline demographic characteristics of women without MS and a pregnancy for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
N	40,843	49,527	57,947	59,771	56,459	57,975	57,866	55,031	53,486
Mean age (SD), years	29.2 (6.3)	29.2 (6.4)	29.2 (6.4)	29.3 (6.4)	29.5 (6.3)	29.4 (6.3)	29.4 (6.3)	29.4 (6.2)	29.6 (6.2)
Median age, years	29	29	29	29	29	29	29	29	29
Age grouping, years									
18–24	9977 (24.4)	11,923 (24.1)	13,664 (23.6)	13,758 (23.0)	11,900 (21.1)	12,591 (21.7)	13,148 (22.7)	12,335 (22.4)	11,381 (21.3)
25–29	12,429 (30.4)	15,410 (31.1)	18,143 (31.3)	18,469 (30.9)	17,959 (31.8)	17,933 (30.9)	17,422 (30.1)	16,443 (29.9)	16,170 (30.2)
30–34	10,751 (26.3)	12,897 (26.0)	15,267 (26.3)	16,256 (27.2)	15,935 (28.2)	16,771 (28.9)	16,788 (29.0)	16,271 (29.6)	15,804 (29.5)
35–39	5537 (13.6)	6741 (13.6)	7872 (13.6)	8026 (13.4)	7604 (13.5)	7590 (13.1)	7365 (12.7)	7143 (13.0)	7305 (13.7)
40–44	1509 (3.7)	1,745 (3.5)	2,038 (3.5)	2,206 (3.7)	2,075 (3.7)	2,092 (3.6)	2,111 (3.6)	1,973 (3.6)	1,893 (3.5)
45+	640 (1.6)	811 (1.6)	963 (1.7)	1,056 (1.8)	986 (1.7)	998 (1.7)	1,032 (1.8)	866 (1.6)	933 (1.7)
Geographic region									
Midwest	11,090 (27.7)	12,896 (26.5)	16,270 (28.5)	15,974 (27.1)	14,653 (26.4)	15,385 (27.0)	15,578 (27.4)	14,233 (26.3)	14,409 (27.4)
Northeast	11,297 (28.2)	13,159 (27.1)	15,706 (27.5)	15,773 (26.8)	12,895 (23.2)	13,286 (23.3)	13,517 (23.7)	12,900 (23.8)	11,817 (22.5)
South	10,820 (27.0)	14,435 (29.7)	15,707 (27.5)	18,849 (32.0)	18,853 (34.0)	19,943 (35.0)	20,288 (35.6)	20,316 (37.5)	19,765 (37.6)
West	6,840 (17.1)	8108 (16.7)	9369 (16.4)	8247 (14.0)	9114 (16.4)	8364 (14.7)	7572 (13.3)	6757 (12.5)	6634 (12.6)
Insurance									
Commercial	36,521 (89.4)	44,630 (90.1)	52,172 (90.0)	53,747 (89.9)	51,510 (91.2)	52,849 (91.2)	51,933 (89.7)	49,956 (90.8)	49,822 (93.1)
Medicaid	4314 (10.6)	4721 (9.5)	5635 (9.7)	5949 (10.0)	4938 (8.7)	5112 (8.8)	5922 (10.2)	5072 (9.2)	3662 (6.8)
Medicare	8 (0.0)	176 (0.4)	140 (0.2)	75 (0.1)	11 (0.0)	14 (0.0)	11 (0.0)	3 (0.0)	2 (0.0)

All values are n (%) unless indicated otherwise

Abbreviations: MS = multiple sclerosis; SD = standard deviation

Table e-8. Baseline demographic characteristics of women with MS and a pregnancy for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
N	871	1071	1340	1447	1368	1388	1304	1258	1260
Mean age (SD), years	32.5 (6.8)	32.4 (6.8)	33.0 (7.4)	32.6 (6.7)	32.5 (6.6)	32.7 (6.7)	32.2 (6.5)	32.4 (6.7)	32.7 (6.8)
Median age, years	32	32	32	32	32	32	32	32	32
Age grouping, years									
18–24	76 (8.7)	95 (8.9)	106 (7.9)	102 (7.0)	106 (7.7)	108 (7.8)	104 (8.0)	101 (8.0)	93 (7.4)
25–29	221 (25.4)	273 (25.5)	343 (25.6)	396 (27.4)	350 (25.6)	347 (25.0)	320 (24.5)	311 (24.7)	307 (24.4)
30–34	286 (32.8)	367 (34.3)	445 (33.2)	497 (34.3)	472 (34.5)	490 (35.3)	512 (39.3)	478 (38.0)	465 (36.9)
35–39	184 (21.1)	208 (19.4)	268 (20.0)	286 (19.8)	293 (21.4)	281 (20.2)	238 (18.3)	240 (19.1)	256 (20.3)
40–44	56 (6.4)	83 (7.8)	86 (6.4)	98 (6.8)	92 (6.7)	88 (6.3)	69 (5.3)	68 (5.4)	75 (6.0)
45+	48 (5.5)	45 (4.2)	92 (6.9)	68 (4.7)	55 (4.0)	74 (5.3)	61 (4.7)	60 (4.8)	64 (5.1)
Geographic region									
Midwest	246 (29.0)	284 (26.9)	395 (29.7)	390 (27.2)	397 (29.5)	430 (31.5)	421 (32.9)	382 (30.8)	392 (31.5)
Northeast	297 (35.1)	353 (33.5)	470 (35.4)	528 (36.9)	421 (31.3)	413 (30.3)	384 (30.0)	386 (31.1)	380 (30.5)
South	177 (20.9)	266 (25.2)	296 (22.3)	363 (25.3)	405 (30.1)	416 (30.5)	377 (29.4)	400 (32.2)	417 (33.5)
West	127 (15.0)	152 (14.4)	167 (12.6)	151 (10.5)	121 (9.0)	104 (7.6)	99 (7.7)	73 (5.9)	56 (4.5)
Insurance									
Commercial	862 (99.0)	1059 (99.0)	1302 (97.2)	1411 (97.5)	1340 (98.0)	1343 (96.8)	1252 (96.0)	1199 (95.3)	1238 (98.3)
Medicaid	7 (0.8)	5 (0.5)	26 (1.9)	28 (1.9)	26 (1.9)	42 (3.0)	51 (3.9)	56 (4.5)	19 (1.5)
Medicare	2 (0.2)	7 (0.7)	12 (0.9)	8 (0.6)	2 (0.1)	3 (0.2)	1 (0.1)	3 (0.2)	3 (0.2)

All values are n (%) unless indicated otherwise

Abbreviations: MS = multiple sclerosis; SD = standard deviation

Table e-9. Baseline clinical characteristics of women without MS and a pregnancy for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
N	40,843	49,527	57,947	59,771	56,459	57,975	57,866	55,031	53,486
Charlson Comorbidity Index									
Mean (SD)	0.14 (0.51)	0.14 (0.51)	0.15 (0.54)	0.16 (0.56)	0.15 (0.53)	0.16 (0.55)	0.16 (0.54)	0.15 (0.53)	0.15 (0.54)
Median	0	0	0	0	0	0	0	0	0
Alcohol disorder									
n (%)	143 (0.4)	205 (0.4)	262 (0.5)	303 (0.5)	262 (0.5)	306 (0.5)	326 (0.6)	333 (0.6)	326 (0.6)
Anxiety									
n (%)	1781 (4.4)	2400 (4.8)	3032 (5.2)	3609 (6.0)	3644 (6.5)	4157 (7.2)	4532 (7.8)	4703 (8.5)	4855 (9.1)
Arthritis									
n (%)	494 (1.2)	570 (1.3)	681 (1.2)	739 (1.2)	724 (1.3)	732 (1.3)	768 (1.3)	704 (1.3)	686 (1.3)
Chronic lung disease									
n (%)	2027 (5.0)	2553 (5.2)	3169 (5.5)	3476 (5.8)	3220 (5.7)	3370 (5.8)	3543 (6.1)	3229 (5.9)	2976 (5.6)
Depression									
n (%)	973 (2.4)	1213 (2.4)	1415 (2.4)	1511 (2.5)	1495 (2.6)	1595 (2.8)	1549 (2.7)	1515 (2.8)	1488 (2.8)
Diabetes									
n (%)	1057 (2.6)	1269 (2.6)	1542 (2.7)	1574 (2.6)	1484 (2.6)	1521 (2.6)	1502 (2.6)	1424 (2.6)	1300 (2.4)
Gastrointestinal disease									
n (%)	2893 (7.1)	3584 (7.2)	4457 (7.7)	5010 (8.4)	5037 (8.9)	5204 (9.0)	5650 (9.8)	5396 (9.8)	5471 (10.2)
Hyperlipidemia									
n (%)	1727 (4.3)	2053 (4.1)	2602 (4.5)	2743 (4.6)	2479 (4.4)	2511 (4.3)	2261 (3.9)	2099 (3.8)	1891 (3.5)
Hypertension									
n (%)	1913 (4.7)	2552 (5.2)	2945 (5.1)	3196 (5.3)	3061 (5.4)	3169 (5.5)	3247 (5.6)	2923 (5.3)	2828 (5.3)
Thyroid disease									
n (%)	2645 (6.5)	3279 (6.6)	4217 (7.3)	4528 (7.6)	4589 (8.1)	4824 (8.3)	4899 (8.5)	4716 (8.6)	4733 (8.8)

Abbreviations: MS = multiple sclerosis; SD = standard deviation

Table e-10. Baseline clinical characteristics of women with MS and a pregnancy for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
N	871	1071	1340	1447	1368	1388	1304	1258	1260
Charlson Comorbidity Index									
Mean (SD)	0.37 (0.86)	0.30 (0.78)	0.33 (0.84)	0.34 (0.89)	0.28 (0.87)	0.29 (0.77)	0.34 (0.95)	0.34 (0.93)	0.28 (0.77)
Median	0	0	0	0	0	0	0	0	0
Alcohol disorder									
n (%)	4 (0.5)	4 (0.4)	2 (0.1)	8 (0.6)	7 (0.5)	7 (0.5)	5 (0.4)	15 (1.2)	8 (0.6)
Anxiety									
n (%)	79 (9.1)	85 (8.0)	128 (9.6)	139 (9.6)	135 (10.0)	175 (12.6)	174 (13.3)	197 (15.7)	186 (14.8)
Arthritis									
n (%)	29 (3.3)	31 (2.9)	50 (3.7)	48 (3.3)	41 (3.0)	38 (2.7)	45 (3.5)	43 (3.4)	41 (3.3)
Chronic lung disease									
n (%)	80 (9.2)	72 (6.7)	99 (7.4)	113 (7.8)	95 (7.0)	102 (7.3)	119 (9.1)	96 (7.6)	97 (7.7)
Depression									
n (%)	49 (5.6)	54 (5.0)	61 (4.6)	89 (6.2)	74 (5.4)	75 (5.4)	62 (4.8)	67 (5.3)	69 (5.5)
Diabetes									
n (%)	48 (5.5)	47 (4.4)	53 (4.0)	57 (3.9)	57 (4.2)	62 (4.5)	57 (4.4)	59 (4.7)	40 (3.2)
Gastrointestinal disease									
n (%)	107 (12.3)	142 (13.3)	181 (13.5)	211 (14.6)	203 (14.8)	173 (12.5)	196 (15.0)	217 (17.2)	187 (14.8)
Hyperlipidemia									
n (%)	75 (8.6)	92 (8.6)	119 (8.9)	119 (8.2)	118 (8.6)	113 (8.1)	95 (7.3)	78 (6.2)	97 (7.7)
Hypertension									
n (%)	70 (8.0)	90 (8.4)	147 (11.0)	141 (9.7)	129 (9.4)	134 (9.7)	129 (9.9)	138 (11.0)	110 (8.7)
Thyroid disease									
n (%)	99 (11.4)	116 (10.8)	159 (11.9)	184 (12.7)	168 (12.3)	170 (12.2)	182 (14.0)	161 (12.8)	188 (14.9)

Abbreviations: MS = multiple sclerosis; SD = standard deviation

Table e-11. Number of women without MS and pregnancy and unadjusted pregnancy rates for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total number of women without MS	735,974	900,781	1,060,918	1,123,406	1,109,962	1,144,868	1,126,738	1,051,788	1,037,944
Number of women without MS with pregnancy	40,843	49,527	57,947	59,771	56,459	57,975	57,866	55,031	53,486
Unadjusted rate of pregnancy in women without MS	5.55%	5.50%	5.46%	5.32%	5.09%	5.06%	5.14%	5.23%	5.15%

Abbreviation: MS = multiple sclerosis

Table e-12. Number of women with MS and pregnancy and unadjusted pregnancy rates for the 9 annual cohorts

	2006	2007	2008	2009	2010	2011	2012	2013	2014
Total number of women with MS	36,361	44,237	54,390	58,218	54,400	54,376	52,596	49,287	48,996
Number of women with MS with pregnancy	871	1071	1340	1447	1368	1388	1304	1258	1260
Unadjusted rate of pregnancy in women with MS	2.40%	2.42%	2.46%	2.49%	2.51%	2.55%	2.48%	2.55%	2.57%

Abbreviation: MS = multiple sclerosis

Table e-13. Propensity matching balance statistics for the covariates in women with and without MS

Covariate	Case Before	Case After	Control Before	Control After	Std Diff Before	Std Diff After	T-Test P-Value Before	T-Test P-Value After
Age Grouping 25–29	0.2729	0.2729	0.3193	0.2705	–10.420	0.5298	0	0.1317
Age Grouping 30–34	0.3938	0.3938	0.3218	0.3942	14.733	–0.0966	0	0.8349
Age Grouping 35–39	0.2148	0.2148	0.1458	0.2177	16.808	–0.6896	0	0.2208
Age Grouping 40–44	0.0439	0.0439	0.0286	0.0430	7.4679	0.4608	0.0007	0.4796
Age Grouping 45+	0.0009	0.0009	0.0025	0.0014	–5.0487	–1.5368	0.0301	0.5638
Final Payer Medicaid	0.0109	0.0109	0.0463	0.0099	–34.221	0.9109	0	0.4143
Final Payer Medicare	0.0019	0.0019	0.0009	0.0005	2.2319	3.2616	0.3109	0.0833
Hypertension 1 Year Pre- Pregnancy	0.0557	0.0557	0.0357	0.0519	8.7019	1.6464	0.0001	0.1701
Hypothyroidism 1 Year Pre- Pregnancy	0.0732	0.0732	0.0476	0.0708	9.8224	0.9062	0	0.3693
Obesity 1 Year Pre-Pregnancy	0.0524	0.0524	0.0323	0.0486	9.0056	1.6945	0	0.1442
Other Female Genital Tract Disorders 1 Year Pre-Pregnancy	0.3928	0.3928	0.3140	0.3961	16.143	–0.6766	0	0.2087
Ovarian Dysfunction 1 Year Pre- Pregnancy	0.0571	0.0571	0.0408	0.0585	7.0149	–0.6102	0.0016	0.5776
Region NORTHEAST	0.2885	0.2885	0.2281	0.2885	13.324	0	0	1

Region SOUTH	0.3083	0.3083	0.3322	0.3121	-5.1654	-0.8177	0.0209	0.1306
Region WEST	0.0817	0.0817	0.1443	0.0807	-22.843	0.3447	0	0.5931
Year of Pregnancy 2007	0.1110	0.1110	0.1147	0.1086	-1.1863	0.7515	0.5955	0.0956
Year of Pregnancy 2008	0.1166	0.1166	0.1236	0.1162	-2.1614	0.1471	0.3337	0.7056
Year of Pregnancy 2009	0.1331	0.1331	0.1284	0.1327	1.3832	0.1389	0.5353	0.7816
Year of Pregnancy 2010	0.1596	0.1596	0.1342	0.1591	6.9164	0.1289	0.0019	0.8084
Year of Pregnancy 2011	0.1464	0.1464	0.1289	0.1468	4.9349	-0.1335	0.0268	0.8084
Year of Pregnancy 2012	0.1346	0.1346	0.1285	0.1364	1.7766	-0.5533	0.4258	0.2852
Year of Pregnancy 2013	0.1176	0.1176	0.1157	0.1185	0.5851	-0.2931	0.7932	0.6548
Year of Pregnancy 2014	0.0203	0.0203	0.0184	0.0208	1.3765	-0.3347	0.5366	0.7390

Abbreviations: MS = multiple sclerosis; Std Diff = standard difference