3M™ Potentially Preventable Complications (PPC) Classification System

Evaluating the quality of POA reporting in hospital claims data

For ICD-10-CM and PPC v36.0

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About this document

This document is for customers who want to use the 3M™ Potentially Preventable Complications (PPC) Classification System to evaluate claims data. Before you can begin using the PPC Classification System to evaluate claims data, you should first ensure the POA field for secondary diagnosis is being reported accurately within the data. This document explains criteria developed by 3M Health Information Systems that you can use to determine the quality of POA reporting in your data.

Customers that may want to perform a PPC analysis, and therefore need to evaluate the quality of POA report in their data, can include:

- Hospital HIS departments

- Hospital Quality departments

- State agencies that want to publish comparison reports

- Payers that want to calculate ways to adjust payment based on complication rates

- Payers that want to use PPCs for quality and cost analysis

Development of POA quality screening criteria

3M Health Information Systems (3M HIS) developed a set of quality screening criteria you can use to review your data set and remove hospitals with questionable data in preparation for your PPC analysis. These criteria are based on a statistical analysis of the 2005/2006 California data with 7,371,005 cases from 387 acute care hospitals and are based on a clinical consensus informed by evaluation of distributions of the hospital POA data. 3M HIS evaluated each hospital's case count, average length of stay (ALOS), mortality rate, and percent rate of the POA flag values against four different sets of secondary diagnosis codes.

The first set of secondary diagnosis codes used in 3M HIS' analysis (see "List 1" on page 8) are pre-existing and should always (or nearly always) be coded as POA. A hospital's data is questionable if they have a low POA rate for these secondary diagnosis codes.

The second set of secondary diagnosis codes (see "List 2" on page 8) are exempt based on the national POA coding guidelines. These diagnosis codes are usually POA or their POA status is not an important distinction, such as the codes which describe factors influencing health status, contact with health services, and external causes of injury and poisoning.

The third set of secondary diagnosis codes (page 8) are perinatal secondary diagnosis codes.

The fourth set of secondary diagnosis codes (page 23) have a relatively lower percentage rate for being POA when they occur for elective surgical cases or surgical cases that may be urgent but usually are not considered an emergency situation. A hospital's data is questionable if they have a high POA percentage rate for the secondary diagnosis codes assigned to these surgical DRG cases.

The code lists have been translated from ICD-9-CM to ICD-10-CM. When an actual ICD-10-CM data set is available, 3M HIS will apply the data-cleansing method to that data set and re-evaluate the data quality zones.

From these evaluations, 3M developed eight criteria to help determine the quality of POA reporting in your data:

- **Case Count.** Identifies small specialty care hospitals.

  Red Zone: Number of cases < 200

  Grey Zone: 200 ≤ Number of cases < 500

- **Average Length of Stay.** Identifies long-term care and other post-acute care inpatient hospitals with long average lengths of stay.

  Red Zone: ALOS ≥ 12.5

  Grey Zone: 10 ≤ ALOS < 12.5

- **Mortality Rate.** Identifies hospice and end-of-life care facilities with high mortality rates.

  Red Zone: Percent Died ≥ 9%

  Grey Zone: 6% ≤ Percent Died < 9%

- **% Not POA for secondary diagnosis on the Pre-Existing List.** Identifies hospitals with a high not-POA rate for pre-existing secondary diagnosis codes (excluding exempt codes codes and codes identified by a "Y" in the "Neonate" column). Numerator is the count of sdx codes on the pre-existing list with a POA indicator "Not POA." Denominator is the count of sdx codes on the pre-existing list. Some diagnoses will only be considered pre-existing conditions if the patient is a neonate (i.e. Age on Admission is 0 – 7 days). Diagnosis codes identified by a "Y" in the "Neonate" column represent codes that are considered pre-existing conditions only if the patient is a neonate for the sole purpose of assigning the admission APR DRG and are excluded from this POA quality check. Diagnosis codes not identified by a "Y" in the "Neonate" column represent codes to be considered pre-existing conditions regardless of age.

  Red Zone: % NPOA on Pre-Exist ≥ 7.5%

  Grey Zone: 5% ≤ % NPOA on Pre-Exist < 7.5%

- **% Uncertain POA.** Identifies hospitals with a high uncertain POA rate for secondary diagnosis codes (excluding exempt and pre-existing codes). Numerator is the count of sdx codes POA value = "U", "W" or invalid POA value (excluding exempt, pre-existing secondary diagnosis codes). Denominator is the count of sdx codes (excluding exempt, pre-existing secondary diagnosis codes).

  Red Zone: % POA Uncertain ≥ 10%

  Grey Zone: 5% ≤ % POA Uncertain < 10%

- **High % POA.** Identifies hospitals with an extremely high percent POA rate for secondary diagnosis codes (excluding exempt, pre-existing, and perinatal secondary diagnosis codes). Numerator is the count of sdx codes POA (excluding exempt, pre-existing, and perinatal secondary diagnosis codes). Denominator is the count of sdx codes (excluding exempt, pre-existing, and perinatal secondary diagnosis codes).

  Red Zone: % POA ≥ 96%

  Grey Zone: 93% ≤ % POA < 96%

- **Low % POA.** Identifies hospitals with a low percent POA rate for secondary diagnosis codes (excluding exempt, pre-existing, and perinatal secondary diagnosis codes). Numerator is the count of sdx codes POA (excluding exempt, pre-existing, and perinatal secondary diagnosis codes). Denominator is the count of sdx codes (excluding exempt, pre-existing, and perinatal secondary diagnosis codes).

  Red Zone: % POA ≤ 70%

  Grey Zone: 70% < % POA ≤ 77%

- **% POA for secondary diagnosis on the List 4 for elective surgical cases.** Identifies hospitals with a high POA percentage rate for these secondary diagnosis codes on elective surgical DRG cases. Numerator is the count of elective surgical cases that had one or more sdx codes POA from List 4. Denominator is the count of elective surgical cases.

  Red Zone: % POA ≥ 40%

  Grey Zone: 30% ≤ % POA < 40%

Screening for POA quality in your data set

The first three criteria are used to identify non-inpatient acute care hospitals and potentially exclude them from analysis. If the list of hospitals included in the analysis are all known inpatient acute care hospitals, you can ignore the first three edits. For each of the remaining five edit

criteria 3M HIS developed, a hospital can fall within the red zone or the grey zone. Hospitals that do not pass ONE or more the red zone criteria are identified as "poor-quality reporting of POA indicator", and you should exclude these hospitals when you analyze your data using the PPC classification system. Hospitals that pass all the red zone criteria but do not pass TWO or more grey zone criteria are also identified as "poor-quality reporting of POA indicator" and should be excluded from further PPC-related analysis.

To evaluate the quality of POA reporting in your data set

1. Compare each hospital's data against each of the criteria listed in the previous section.

2. Identify hospitals that fall within the red zone for one or more criteria.

3. Identify hospitals that fall within the grey zone for two or more criteria.

4. Exclude the hospitals identified in steps 2 and 3 from further PPC analysis.

Code set list definitions

List 1

Pre-existing secondary diagnosis code list used with admission APR DRGs. For the full list, see the "Admission APR DRGs" section in the definitions manual for the 3M™ Potentially Preventable Complications (PPC) Classification System.

https://apps.3mhis.com/download/3M_Docs_Secured/Groupers/PPC/PPC_I-10_defman/v36/identify_always_poa_dx.htm

List 2

Secondary diagnosis codes exempt from POA coding as defined in the national POA coding guidelines. Refer to the following link for the POA exempt list:

https://www.cdc.gov/nchs/icd/icd10cm.htm

List 3

Perinatal secondary diagnosis codes.

FY2019 ICD-10-CM diagnosis code	Code description
A33	Tetanus neonatorum
P000	Newborn (suspected to be) affected by maternal hypertensive disorders
P001	Newborn (suspected to be) affected by maternal renal and urinary tract diseases
P002	Newborn (suspected to be) affected by maternal infectious and parasitic diseases
P003	Newborn (suspected to be) affected by other maternal circulatory and respiratory diseases
P004	Newborn (suspected to be) affected by maternal nutritional disorders
P005	Newborn (suspected to be) affected by maternal injury
P006	Newborn (suspected to be) affected by surgical procedure on mother
P007	Newborn (suspected to be) affected by other medical procedures on mother, not elsewhere classified
P0081	Newborn (suspected to be) affected by periodontal disease in mother
P0089	Newborn (suspected to be) affected by other maternal conditions
P009	Newborn (suspected to be) affected by unspecified maternal condition
P010	Newborn (suspected to be) affected by incompetent cervix
P011	Newborn (suspected to be) affected by premature rupture of membranes
P012	Newborn (suspected to be) affected by oligohydramnios
P013	Newborn (suspected to be) affected by polyhydramnios
P014	Newborn (suspected to be) affected by ectopic pregnancy
P015	Newborn (suspected to be) affected by multiple pregnancy
P016	Newborn (suspected to be) affected by maternal death
P017	Newborn (suspected to be) affected by malpresentation before labor

FY2019 ICD-10-CM diagnosis code	Code description
P018	Newborn (suspected to be) affected by other maternal complications of pregnancy
P019	Newborn (suspected to be) affected by maternal complication of pregnancy, unspecified
P020	Newborn (suspected to be) affected by placenta previa
P021	Newborn (suspected to be) affected by other forms of placental separation and hemorrhage
P0220	Newborn (suspected to be) affected by unspecified morphological and functional abnormalities of placenta
P0229	Newborn (suspected to be) affected by other morphological and functional abnormalities of placenta
P023	Newborn (suspected to be) affected by placental transfusion syndromes
P024	Newborn (suspected to be) affected by prolapsed cord
P025	Newborn (suspected to be) affected by other compression of umbilical cord
P0260	Newborn (suspected to be) affected by unspecified conditions of umbilical cord
P0269	Newborn (suspected to be) affected by other conditions of umbilical cord
P0270	Newborn affected by fetal inflammatory response syndrome
P0278	Newborn affected by other conditions from chorioamnionitis
P028	Newborn (suspected to be) affected by other abnormalities of membranes
P029	Newborn (suspected to be) affected by abnormality of membranes, unspecified
P030	Newborn (suspected to be) affected by breech delivery and extraction
P031	Newborn (suspected to be) affected by other malpresentation, malposition and disproportion during labor and delivery
P034	Newborn (suspected to be) affected by Cesarean delivery
P035	Newborn (suspected to be) affected by precipitate delivery
P036	Newborn (suspected to be) affected by abnormal uterine contractions
P03810	Newborn (suspected to be) affected by abnormality in fetal (intrauterine) heart rate or rhythm before the onset of labor
P03811	Newborn (suspected to be) affected by abnormality in fetal (intrauterine) heart rate or rhythm during labor

FY2019 ICD-10-CM diagnosis code	Code description
P03819	Newborn (suspected to be) affected by abnormality in fetal (intrauterine) heart rate or rhythm, unspecified as to time of onset
P0382	Meconium passage during delivery
P0389	Newborn (suspected to be) affected by other specified complications of labor and delivery
P039	Newborn (suspected to be) affected by complication of labor and delivery, unspecified
P040	Newborn (suspected to be) affected by maternal anesthesia and analgesia in pregnancy, labor and delivery
P0411	Newborn affected by maternal antineoplastic chemotherapy
P0412	Newborn affected by maternal cytotoxic drugs
P0413	Newborn affected by maternal use of anticonvulsants
P0414	Newborn affected by maternal use of opiates
P0415	Newborn affected by maternal use of antidepressants
P0416	Newborn affected by maternal use of amphetamines
P0417	Newborn affected by maternal use of sedative-hypnotics
P0418	Newborn affected by other maternal medication
P0419	Newborn affected by maternal use of unspecified medication
P041A	Newborn affected by maternal use of anxiolytics
P042	Newborn (suspected to be) affected by maternal use of tobacco
P043	Newborn (suspected to be) affected by maternal use of alcohol
P0440	Newborn affected by maternal use of unspecified drugs of addiction
P0441	Newborn (suspected to be) affected by maternal use of cocaine
P0442	Newborn affected by maternal use of hallucinogens
P0449	Newborn (suspected to be) affected by maternal use of other drugs of addiction
P045	Newborn (suspected to be) affected by maternal use of nutritional chemical substances
P046	Newborn (suspected to be) affected by maternal exposure to environmental chemical substances
P0481	Newborn affected by maternal use of cannabis

FY2019 ICD-10-CM diagnosis code	Code description
P0489	Newborn affected by other maternal noxious substances
P049	Newborn (suspected to be) affected by maternal noxious substance, unspecified
P0500	Newborn light for gestational age, unspecified weight
P0501	Newborn light for gestational age, less than 500 grams
P0502	Newborn light for gestational age, 500-749 grams
P0503	Newborn light for gestational age, 750-999 grams
P0504	Newborn light for gestational age, 1000-1249 grams
P0505	Newborn light for gestational age, 1250-1499 grams
P0506	Newborn light for gestational age, 1500-1749 grams
P0507	Newborn light for gestational age, 1750-1999 grams
P0508	Newborn light for gestational age, 2000-2499 grams
P0509	Newborn light for gestational age, 2500 grams and over
P0510	Newborn small for gestational age, unspecified weight
P0511	Newborn small for gestational age, less than 500 grams
P0512	Newborn small for gestational age, 500-749 grams
P0513	Newborn small for gestational age, 750-999 grams
P0514	Newborn small for gestational age, 1000-1249 grams
P0515	Newborn small for gestational age, 1250-1499 grams
P0516	Newborn small for gestational age, 1500-1749 grams
P0517	Newborn small for gestational age, 1750-1999 grams
P0518	Newborn small for gestational age, 2000-2499 grams
P0519	Newborn small for gestational age, other
P052	Newborn affected by fetal (intrauterine) malnutrition not light or small for gestational age
P059	Newborn affected by slow intrauterine growth, unspecified
P0700	Extremely low birth weight newborn, unspecified weight
P0701	Extremely low birth weight newborn, less than 500 grams

FY2019 ICD-10-CM diagnosis code	Code description
P0702	Extremely low birth weight newborn, 500-749 grams
P0703	Extremely low birth weight newborn, 750-999 grams
P0710	Other low birth weight newborn, unspecified weight
P0714	Other low birth weight newborn, 1000-1249 grams
P0715	Other low birth weight newborn, 1250-1499 grams
P0716	Other low birth weight newborn, 1500-1749 grams
P0717	Other low birth weight newborn, 1750-1999 grams
P0718	Other low birth weight newborn, 2000-2499 grams
P0720	Extreme immaturity of newborn, unspecified weeks of gestation
P0721	Extreme immaturity of newborn, gestational age less than 23 completed weeks
P0722	Extreme immaturity of newborn, gestational age 23 completed weeks
P0723	Extreme immaturity of newborn, gestational age 24 completed weeks
P0724	Extreme immaturity of newborn, gestational age 25 completed weeks
P0725	Extreme immaturity of newborn, gestational age 26 completed weeks
P0726	Extreme immaturity of newborn, gestational age 27 completed weeks
P0730	Preterm newborn, unspecified weeks of gestation
P0731	Preterm newborn, gestational age 28 completed weeks
P0732	Preterm newborn, gestational age 29 completed weeks
P0733	Preterm newborn, gestational age 30 completed weeks
P0734	Preterm newborn, gestational age 31 completed weeks
P0735	Preterm newborn, gestational age 32 completed weeks
P0736	Preterm newborn, gestational age 33 completed weeks
P0737	Preterm newborn, gestational age 34 completed weeks
P0738	Preterm newborn, gestational age 35 completed weeks
P0739	Preterm newborn, gestational age 36 completed weeks
P080	Exceptionally large newborn baby
P081	Other heavy for gestational age newborn
P0821	Post-term newborn

FY2019 ICD-10-CM diagnosis code	Code description
P0822	Prolonged gestation of newborn
P100	Subdural hemorrhage due to birth injury
P101	Cerebral hemorrhage due to birth injury
P102	Intraventricular hemorrhage due to birth injury
P103	Subarachnoid hemorrhage due to birth injury
P104	Tentorial tear due to birth injury
P108	Other intracranial lacerations and hemorrhages due to birth injury
P109	Unspecified intracranial laceration and hemorrhage due to birth injury
P110	Cerebral edema due to birth injury
P111	Other specified brain damage due to birth injury
P112	Unspecified brain damage due to birth injury
P113	Birth injury to facial nerve
P114	Birth injury to other cranial nerves
P115	Birth injury to spine and spinal cord
P119	Birth injury to central nervous system, unspecified
P120	Cephalhematoma due to birth injury
P121	Chignon (from vacuum extraction) due to birth injury
P122	Epicranial subaponeurotic hemorrhage due to birth injury
P123	Bruising of scalp due to birth injury
P124	Injury of scalp of newborn due to monitoring equipment
P1281	Caput succedaneum
P1289	Other birth injuries to scalp
P129	Birth injury to scalp, unspecified
P130	Fracture of skull due to birth injury
P131	Other birth injuries to skull
P132	Birth injury to femur
P133	Birth injury to other long bones
P134	Fracture of clavicle due to birth injury

FY2019 ICD-10-CM diagnosis code	Code description
P138	Birth injuries to other parts of skeleton
P139	Birth injury to skeleton, unspecified
P140	Erb's paralysis due to birth injury
P141	Klumpke's paralysis due to birth injury
P142	Phrenic nerve paralysis due to birth injury
P143	Other brachial plexus birth injuries
P148	Birth injuries to other parts of peripheral nervous system
P149	Birth injury to peripheral nervous system, unspecified
P150	Birth injury to liver
P151	Birth injury to spleen
P152	Sternomastoid injury due to birth injury
P153	Birth injury to eye
P154	Birth injury to face
P155	Birth injury to external genitalia
P156	Subcutaneous fat necrosis due to birth injury
P158	Other specified birth injuries
P159	Birth injury, unspecified
P190	Metabolic acidemia in newborn first noted before onset of labor
P191	Metabolic acidemia in newborn first noted during labor
P192	Metabolic acidemia noted at birth
P199	Metabolic acidemia, unspecified
P220	Respiratory distress syndrome of newborn
P221	Transient tachypnea of newborn
P228	Other respiratory distress of newborn
P229	Respiratory distress of newborn, unspecified
P230	Congenital pneumonia due to viral agent
P231	Congenital pneumonia due to Chlamydia
P232	Congenital pneumonia due to staphylococcus

FY2019 ICD-10-CM diagnosis code	Code description
P233	Congenital pneumonia due to streptococcus, group B
P234	Congenital pneumonia due to Escherichia coli
P235	Congenital pneumonia due to Pseudomonas
P236	Congenital pneumonia due to other bacterial agents
P238	Congenital pneumonia due to other organisms
P239	Congenital pneumonia, unspecified
P2400	Meconium aspiration without respiratory symptoms
P2401	Meconium aspiration with respiratory symptoms
P2410	Neonatal aspiration of (clear) amniotic fluid and mucus without respiratory symptoms
P2411	Neonatal aspiration of (clear) amniotic fluid and mucus with respiratory symptoms
P2420	Neonatal aspiration of blood without respiratory symptoms
P2421	Neonatal aspiration of blood with respiratory symptoms
P2430	Neonatal aspiration of milk and regurgitated food without respiratory symptoms
P2431	Neonatal aspiration of milk and regurgitated food with respiratory symptoms
P250	Interstitial emphysema originating in the perinatal period
P251	Pneumothorax originating in the perinatal period
P252	Pneumomediastinum originating in the perinatal period
P253	Pneumopericardium originating in the perinatal period
P258	Other conditions related to interstitial emphysema originating in the perinatal period
P260	Tracheobronchial hemorrhage originating in the perinatal period
P261	Massive pulmonary hemorrhage originating in the perinatal period
P268	Other pulmonary hemorrhages originating in the perinatal period
P269	Unspecified pulmonary hemorrhage originating in the perinatal period
P270	Wilson-Mikity syndrome
P271	Bronchopulmonary dysplasia originating in the perinatal period

FY2019 ICD-10-CM diagnosis code	Code description
P278	Other chronic respiratory diseases originating in the perinatal period
P279	Unspecified chronic respiratory disease originating in the perinatal period
P280	Primary atelectasis of newborn
P2810	Unspecified atelectasis of newborn
P2811	Resorption atelectasis without respiratory distress syndrome
P2819	Other atelectasis of newborn
P282	Cyanotic attacks of newborn
P283	Primary sleep apnea of newborn
P284	Other apnea of newborn
P285	Respiratory failure of newborn
P2881	Respiratory arrest of newborn
P2889	Other specified respiratory conditions of newborn
P289	Respiratory condition of newborn, unspecified
P290	Neonatal cardiac failure
P2911	Neonatal tachycardia
P2912	Neonatal bradycardia
P292	Neonatal hypertension
P294	Transient myocardial ischemia in newborn
P2981	Cardiac arrest of newborn
P2989	Other cardiovascular disorders originating in the perinatal period
P299	Cardiovascular disorder originating in the perinatal period, unspecified
P350	Congenital rubella syndrome
P351	Congenital cytomegalovirus infection
P352	Congenital herpesviral [herpes simplex] infection
P353	Congenital viral hepatitis
P354	Congenital Zika virus disease
P358	Other congenital viral diseases
P359	Congenital viral disease, unspecified

FY2019 ICD-10-CM diagnosis code	Code description
P370	Congenital tuberculosis
P371	Congenital toxoplasmosis
P372	Neonatal (disseminated) listeriosis
P373	Congenital falciparum malaria
P374	Other congenital malaria
P375	Neonatal candidiasis
P378	Other specified congenital infectious and parasitic diseases
P379	Congenital infectious or parasitic disease, unspecified
P381	Omphalitis with mild hemorrhage
P389	Omphalitis without hemorrhage
P390	Neonatal infective mastitis
P391	Neonatal conjunctivitis and dacryocystitis
P392	Intra-amniotic infection affecting newborn, not elsewhere classified
P500	Newborn affected by intrauterine (fetal) blood loss from vasa previa
P501	Newborn affected by intrauterine (fetal) blood loss from ruptured cord
P502	Newborn affected by intrauterine (fetal) blood loss from placenta
P503	Newborn affected by hemorrhage into co-twin
P504	Newborn affected by hemorrhage into maternal circulation
P505	Newborn affected by intrauterine (fetal) blood loss from cut end of co-twin's cord
P508	Newborn affected by other intrauterine (fetal) blood loss
P509	Newborn affected by intrauterine (fetal) blood loss, unspecified
P510	Massive umbilical hemorrhage of newborn
P518	Other umbilical hemorrhages of newborn
P519	Umbilical hemorrhage of newborn, unspecified
P520	Intraventricular (nontraumatic) hemorrhage, grade 1, of newborn
P521	Intraventricular (nontraumatic) hemorrhage, grade 2, of newborn
P5221	Intraventricular (nontraumatic) hemorrhage, grade 3, of newborn

FY2019 ICD-10-CM diagnosis code	Code description
P5222	Intraventricular (nontraumatic) hemorrhage, grade 4, of newborn
P523	Unspecified intraventricular (nontraumatic) hemorrhage of newborn
P524	Intracerebral (nontraumatic) hemorrhage of newborn
P525	Subarachnoid (nontraumatic) hemorrhage of newborn
P526	Cerebellar (nontraumatic) and posterior fossa hemorrhage of newborn
P528	Other intracranial (nontraumatic) hemorrhages of newborn
P529	Intracranial (nontraumatic) hemorrhage of newborn, unspecified
P53	Hemorrhagic disease of newborn
P540	Neonatal hematemesis
P541	Neonatal melena
P542	Neonatal rectal hemorrhage
P543	Other neonatal gastrointestinal hemorrhage
P544	Neonatal adrenal hemorrhage
P545	Neonatal cutaneous hemorrhage
P546	Neonatal vaginal hemorrhage
P548	Other specified neonatal hemorrhages
P549	Neonatal hemorrhage, unspecified
P550	Rh isoimmunization of newborn
P551	ABO isoimmunization of newborn
P558	Other hemolytic diseases of newborn
P559	Hemolytic disease of newborn, unspecified
P560	Hydrops fetalis due to isoimmunization
P5690	Hydrops fetalis due to unspecified hemolytic disease
P5699	Hydrops fetalis due to other hemolytic disease
P570	Kernicterus due to isoimmunization
P578	Other specified kernicterus
P579	Kernicterus, unspecified
P580	Neonatal jaundice due to bruising

FY2019 ICD-10-CM diagnosis code	Code description
P581	Neonatal jaundice due to bleeding
P582	Neonatal jaundice due to infection
P583	Neonatal jaundice due to polycythemia
P5841	Neonatal jaundice due to drugs or toxins transmitted from mother
P5842	Neonatal jaundice due to drugs or toxins given to newborn
P585	Neonatal jaundice due to swallowed maternal blood
P588	Neonatal jaundice due to other specified excessive hemolysis
P589	Neonatal jaundice due to excessive hemolysis, unspecified
P590	Neonatal jaundice associated with preterm delivery
P591	Inspissated bile syndrome
P5920	Neonatal jaundice from unspecified hepatocellular damage
P5929	Neonatal jaundice from other hepatocellular damage
P593	Neonatal jaundice from breast milk inhibitor
P598	Neonatal jaundice from other specified causes
P599	Neonatal jaundice, unspecified
P60	Disseminated intravascular coagulation of newborn
P610	Transient neonatal thrombocytopenia
P611	Polycythemia neonatorum
P612	Anemia of prematurity
P613	Congenital anemia from fetal blood loss
P614	Other congenital anemias, not elsewhere classified
P615	Transient neonatal neutropenia
P616	Other transient neonatal disorders of coagulation
P618	Other specified perinatal hematological disorders
P619	Perinatal hematological disorder, unspecified
P700	Syndrome of infant of mother with gestational diabetes
P701	Syndrome of infant of a diabetic mother
P702	Neonatal diabetes mellitus

FY2019 ICD-10-CM diagnosis code	Code description
P713	Neonatal tetany without calcium or magnesium deficiency
P714	Transitory neonatal hypoparathyroidism
P720	Neonatal goiter, not elsewhere classified
P721	Transitory neonatal hyperthyroidism
P722	Other transitory neonatal disorders of thyroid function, not elsewhere classified
P728	Other specified transitory neonatal endocrine disorders
P729	Transitory neonatal endocrine disorder, unspecified
P745	Transitory tyrosinemia of newborn
P760	Meconium plug syndrome
P761	Transitory ileus of newborn
P762	Intestinal obstruction due to inspissated milk
P768	Other specified intestinal obstruction of newborn
P769	Intestinal obstruction of newborn, unspecified
P771	Stage 1 necrotizing enterocolitis in newborn
P772	Stage 2 necrotizing enterocolitis in newborn
P773	Stage 3 necrotizing enterocolitis in newborn
P779	Necrotizing enterocolitis in newborn, unspecified
P780	Perinatal intestinal perforation
P781	Other neonatal peritonitis
P782	Neonatal hematemesis and melena due to swallowed maternal blood
P783	Noninfective neonatal diarrhea
P7881	Congenital cirrhosis (of liver)
P7882	Peptic ulcer of newborn
P7883	Newborn esophageal reflux
P7884	Gestational alloimmune liver disease
P7889	Other specified perinatal digestive system disorders
P789	Perinatal digestive system disorder, unspecified
P830	Sclerema neonatorum

FY2019 ICD-10-CM diagnosis code	Code description
P831	Neonatal erythema toxicum
P832	Hydrops fetalis not due to hemolytic disease
P8330	Unspecified edema specific to newborn
P8339	Other edema specific to newborn
P834	Breast engorgement of newborn
P835	Congenital hydrocele
P836	Umbilical polyp of newborn
P8381	Umbilical granuloma
P8388	Other specified conditions of integument specific to newborn
P839	Condition of the integument specific to newborn, unspecified
P84	Other problems with newborn
P90	Convulsions of newborn
P910	Neonatal cerebral ischemia
P911	Acquired periventricular cysts of newborn
P912	Neonatal cerebral leukomalacia
P913	Neonatal cerebral irritability
P914	Neonatal cerebral depression
P915	Neonatal coma
P9160	Hypoxic ischemic encephalopathy [HIE], unspecified
P9161	Mild hypoxic ischemic encephalopathy [HIE]
P9162	Moderate hypoxic ischemic encephalopathy [HIE]
P9163	Severe hypoxic ischemic encephalopathy [HIE]
P91811	Neonatal encephalopathy in diseases classified elsewhere
P91819	Neonatal encephalopathy, unspecified
P9188	Other specified disturbances of cerebral status of newborn
P919	Disturbance of cerebral status of newborn, unspecified
P9201	Bilious vomiting of newborn
P9209	Other vomiting of newborn

FY2019 ICD-10-CM diagnosis code	Code description
P925	Neonatal difficulty in feeding at breast
P930	Grey baby syndrome
P940	Transient neonatal myasthenia gravis
P941	Congenital hypertonia
P942	Congenital hypotonia
P948	Other disorders of muscle tone of newborn
P949	Disorder of muscle tone of newborn, unspecified
P95	Stillbirth
P960	Congenital renal failure
P961	Neonatal withdrawal symptoms from maternal use of drugs of addiction
P962	Withdrawal symptoms from therapeutic use of drugs in newborn
P963	Wide cranial sutures of newborn
P965	Complication to newborn due to (fetal) intrauterine procedure
P9681	Exposure to (parental) (environmental) tobacco smoke in the perinatal period
P9682	Delayed separation of umbilical cord
P9683	Meconium staining
P9689	Other specified conditions originating in the perinatal period
P969	Condition originating in the perinatal period, unspecified

List 4

Other complication and/or procedure-related secondary diagnosis codes.

FY2019 ICD-10-CM diagnosis code	Code description
D7801	Intraoperative hemorrhage and hematoma of the spleen complicating a procedure on the spleen
D7802	Intraoperative hemorrhage and hematoma of the spleen complicating other procedure
D7811	Accidental puncture and laceration of the spleen during a procedure on the spleen
D7812	Accidental puncture and laceration of the spleen during other procedure
D7821	Postprocedural hemorrhage and hematoma of the spleen following a procedure on the spleen
D7822	Postprocedural hemorrhage and hematoma of the spleen following other procedure
D7831	Postprocedural hematoma of the spleen following a procedure on the spleen
D7832	Postprocedural hematoma of the spleen following other procedure
D7833	Postprocedural seroma of the spleen fol proc on spleen
D7834	Postproc seroma of the spleen following other procedure
D7881	Other intraoperative complications of the spleen
D7889	Other postprocedural complications of the spleen
E3601	Intraoperative hemorrhage and hematoma of an endocrine system organ or structure complicating an endocrine system procedure
E3602	Intraoperative hemorrhage and hematoma of an endocrine system organ or structure complicating other procedure
E3611	Accidental puncture and laceration of an endocrine system organ or structure during an endocrine system procedure
E3612	Accidental puncture and laceration of an endocrine system organ or structure during other procedure
E368	Other intraoperative complications of endocrine system
E891	Postprocedural hypoinsulinemia

FY2019 ICD-10-CM diagnosis code	Code description
E892	Postprocedural hypoparathyroidism
E893	Postprocedural hypopituitarism
E89810	Postprocedural hemorrhage of an endocrine system organ or structure following an endocrine system procedure
E89811	Postprocedural hemorrhage of an endocrine system organ or structure following other procedure
E89820	Postprocedural hematoma of an endocrine system organ or structure following an endocrine system procedure
E89821	Postprocedural hematoma of an endocrine system organ or structure following other procedure
E89822	Postproc seroma of an endo sys org fol an endo sys procedure
E89823	Postproc seroma of an endo sys org following other procedure
E8989	Other postprocedural endocrine and metabolic complications and disorders
G8918	Other acute postprocedural pain
G970	Cerebrospinal fluid leak from spinal puncture
G972	Intracranial hypotension following ventricular shunting
G9731	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure
G9732	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure
G9741	Accidental puncture or laceration of dura during a procedure
G9748	Accidental puncture and laceration of other nervous system organ or structure during a nervous system procedure
G9749	Accidental puncture and laceration of other nervous system organ or structure during other procedure
G9751	Postprocedural hemorrhage and hematoma of a nervous system organ or structure following a nervous system procedure
G9752	Postprocedural hemorrhage and hematoma of a nervous system organ or structure following other procedure
G9761	Postprocedural hematoma of a nervous system organ or structure following a nervous system procedure

FY2019 ICD-10-CM diagnosis code	Code description
G9762	Postprocedural hematoma of a nervous system organ or structure following other procedure
G9763	Postproc seroma of a nervous sys org fol a nervous sys proc
G9764	Postproc seroma of a nervous sys org fol other procedure
G9781	Other intraoperative complications of nervous system
G9782	Other postprocedural complications and disorders of nervous system
H59111	Intraoperative hemorrhage and hematoma of right eye and adnexa complicating an ophthalmic procedure
H59112	Intraoperative hemorrhage and hematoma of left eye and adnexa complicating an ophthalmic procedure
H59113	Intraoperative hemorrhage and hematoma of eye and adnexa complicating an ophthalmic procedure, bilateral
H59119	Intraoperative hemorrhage and hematoma of unspecified eye and adnexa complicating an ophthalmic procedure
H59121	Intraoperative hemorrhage and hematoma of right eye and adnexa complicating other procedure
H59122	Intraoperative hemorrhage and hematoma of left eye and adnexa complicating other procedure
H59123	Intraoperative hemorrhage and hematoma of eye and adnexa complicating other procedure, bilateral
H59129	Intraoperative hemorrhage and hematoma of unspecified eye and adnexa complicating other procedure
H59211	Accidental puncture and laceration of right eye and adnexa during an ophthalmic procedure
H59212	Accidental puncture and laceration of left eye and adnexa during an ophthalmic procedure
H59213	Accidental puncture and laceration of eye and adnexa during an ophthalmic procedure, bilateral
H59219	Accidental puncture and laceration of unspecified eye and adnexa during an ophthalmic procedure
H59221	Accidental puncture and laceration of right eye and adnexa during other procedure

FY2019 ICD-10-CM diagnosis code	Code description
H59222	Accidental puncture and laceration of left eye and adnexa during other procedure
H59223	Accidental puncture and laceration of eye and adnexa during other procedure, bilateral
H59229	Accidental puncture and laceration of unspecified eye and adnexa during other procedure
H59311	Postprocedural hemorrhage and hematoma of right eye and adnexa following an ophthalmic procedure
H59312	Postprocedural hemorrhage and hematoma of left eye and adnexa following an ophthalmic procedure
H59313	Postprocedural hemorrhage and hematoma of eye and adnexa following an ophthalmic procedure, bilateral
H59319	Postprocedural hemorrhage and hematoma of unspecified eye and adnexa following an ophthalmic procedure
H59321	Postprocedural hemorrhage and hematoma of right eye and adnexa following other procedure
H59322	Postprocedural hemorrhage and hematoma of left eye and adnexa following other procedure
H59323	Postprocedural hemorrhage and hematoma of eye and adnexa following other procedure, bilateral
H59329	Postprocedural hemorrhage and hematoma of unspecified eye and adnexa following other procedure
H59331	Postprocedural hematoma of right eye and adnexa following an ophthalmic procedure
H59332	Postprocedural hematoma of left eye and adnexa following an ophthalmic procedure
H59333	Postprocedural hematoma of eye and adnexa following an ophthalmic procedure, bilateral
H59339	Postprocedural hematoma of unspecified eye and adnexa following an ophthalmic procedure
H59341	Postprocedural hematoma of right eye and adnexa following other procedure
H59342	Postprocedural hematoma of left eye and adnexa following other procedure

FY2019 ICD-10-CM diagnosis code	Code description
H59343	Postprocedural hematoma of eye and adnexa following other procedure, bilateral
H59349	Postprocedural hematoma of unspecified eye and adnexa following other procedure
H59351	Postproc seroma of right eye and adnexa fol an opth proc
H59352	Postproc seroma of left eye and adnexa fol an opth procedure
H59353	Postproc seroma of eye and adnexa fol an opth procedure, bi
H59359	Postproc seroma of unsp and adnexa fol an opth procedure
H59361	Postproc seroma of right eye and adnexa fol other procedure
H59362	Postproc seroma of left eye and adnexa fol other procedure
H59363	Postproc seroma of eye and adnexa fol other procedure, bi
H59369	Postproc seroma of unsp and adnexa following other procedure
H5988	Other intraoperative complications of eye and adnexa, not elsewhere classified
H9521	Intraoperative hemorrhage and hematoma of ear and mastoid process complicating a procedure on the ear and mastoid process
H9522	Intraoperative hemorrhage and hematoma of ear and mastoid process complicating other procedure
H9531	Accidental puncture and laceration of the ear and mastoid process during a procedure on the ear and mastoid process
H9532	Accidental puncture and laceration of the ear and mastoid process during other procedure
H9541	Postprocedural hemorrhage and hematoma of ear and mastoid process following a procedure on the ear and mastoid process
H9542	Postprocedural hemorrhage and hematoma of ear and mastoid process following other procedure
H9551	Postprocedural hematoma of ear and mastoid process following a procedure on the ear and mastoid process
H9552	Postprocedural hematoma of ear and mastoid process following other procedure
H9553	Postprocedural seroma of ear/mastd fol proc on ear/mastd
H9554	Postprocedural seroma of ear/mastd following other procedure

FY2019 ICD-10-CM diagnosis code	Code description
H9588	Other intraoperative complications and disorders of the ear and mastoid process, not elsewhere classified
H9589	Other postprocedural complications and disorders of the ear and mastoid process, not elsewhere classified
I953	Hypotension of hemodialysis
I9581	Postprocedural hypotension
I97110	Postprocedural cardiac insufficiency following cardiac surgery
I97111	Postprocedural cardiac insufficiency following other surgery
I97120	Postprocedural cardiac arrest following cardiac surgery
I97121	Postprocedural cardiac arrest following other surgery
I97130	Postprocedural heart failure following cardiac surgery
I97131	Postprocedural heart failure following other surgery
I97190	Other postprocedural cardiac functional disturbances following cardiac surgery
I97191	Other postprocedural cardiac functional disturbances following other surgery
I973	Postprocedural hypertension
I97410	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac catheterization
I97411	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac bypass
I97418	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure
I9742	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other procedure
I9751	Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure
I9752	Accidental puncture and laceration of a circulatory system organ or structure during other procedure
I97610	Postprocedural hemorrhage and hematoma of a circulatory system organ or structure following a cardiac catheterization
I97611	Postprocedural hemorrhage and hematoma of a circulatory system organ or structure following cardiac bypass

FY2019 ICD-10-CM diagnosis code	Code description
I97618	Postprocedural hemorrhage and hematoma of a circulatory system organ or structure following other circulatory system procedure
I9762	Postprocedural hemorrhage and hematoma of a circulatory system organ or structure following other procedure
I97620	Postprocedural hemorrhage of a circulatory system organ or structure following other procedure
I97621	Postprocedural hematoma of a circulatory system organ or structure following other procedure
I97622	Postproc seroma of a circ sys org following other procedure
I97630	Postprocedural hematoma of a circulatory system organ or structure following a cardiac catheterization
I97631	Postprocedural hematoma of a circulatory system organ or structure following cardiac bypass
I97638	Postprocedural hematoma of a circulatory system organ or structure following other circulatory system procedure
I97640	Postproc seroma of a circ sys org following a cardiac cath
I97641	Postproc seroma of a circ sys org following cardiac bypass
I97648	Postproc seroma of a circ sys org fol other circ sys proc
I97710	Intraoperative cardiac arrest during cardiac surgery
I97711	Intraoperative cardiac arrest during other surgery
I97790	Other intraoperative cardiac functional disturbances during cardiac surgery
I97791	Other intraoperative cardiac functional disturbances during other surgery
I97810	Intraoperative cerebrovascular infarction during cardiac surgery
I97811	Intraoperative cerebrovascular infarction during other surgery
I97820	Postprocedural cerebrovascular infarction during cardiac surgery
I97821	Postprocedural cerebrovascular infarction during other surgery
I9788	Other intraoperative complications of the circulatory system, not elsewhere classified
I9789	Other postprocedural complications and disorders of the circulatory system, not elsewhere classified
J951	Acute pulmonary insufficiency following thoracic surgery

FY2019 ICD-10-CM diagnosis code	Code description
J952	Acute pulmonary insufficiency following nonthoracic surgery
J953	Chronic pulmonary insufficiency following surgery
J954	Chemical pneumonitis due to anesthesia
J955	Postprocedural subglottic stenosis
J9561	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating a respiratory system procedure
J9562	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating other procedure
J9571	Accidental puncture and laceration of a respiratory system organ or structure during a respiratory system procedure
J9572	Accidental puncture and laceration of a respiratory system organ or structure during other procedure
J95811	Postprocedural pneumothorax
J95812	Postprocedural air leak
J95821	Acute postprocedural respiratory failure
J95822	Acute and chronic postprocedural respiratory failure
J95830	Postprocedural hemorrhage and hematoma of a respiratory system organ or structure following a respiratory system procedure
J95831	Postprocedural hemorrhage and hematoma of a respiratory system organ or structure following other procedure
J95851	Ventilator associated pneumonia
J95859	Other complication of respirator [ventilator]
J95860	Postprocedural hematoma of a respiratory system organ or structure following a respiratory system procedure
J95861	Postprocedural hematoma of a respiratory system organ or structure following other procedure
J95862	Postproc seroma of a resp sys org fol a resp sys procedure
J95863	Postproc seroma of a resp sys org following other procedure
J9588	Other intraoperative complications of respiratory system, not elsewhere classified

FY2019 ICD-10-CM diagnosis code	Code description
J9589	Other postprocedural complications and disorders of respiratory system, not elsewhere classified
K6811	Postprocedural retroperitoneal abscess
K9130	Postprocedural intestinal obstruction, unspecified as to partial versus complete
K9131	Postprocedural partial intestinal obstruction
K9132	Postprocedural complete intestinal obstruction
K9161	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating a digestive sytem procedure
K9162	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating other procedure
K9171	Accidental puncture and laceration of a digestive system organ or structure during a digestive system procedure
K9172	Accidental puncture and laceration of a digestive system organ or structure during other procedure
K9181	Other intraoperative complications of digestive system
K9182	Postprocedural hepatic failure
K9183	Postprocedural hepatorenal syndrome
K91840	Postprocedural hemorrhage and hematoma of a digestive system organ or structure following a digestive system procedure
K91841	Postprocedural hemorrhage and hematoma of a digestive system organ or structure following other procedure
K9186	Retained cholelithiasis following cholecystectomy
K91870	Postprocedural hematoma of a digestive system organ or structure following a digestive system procedure
K91871	Postprocedural hematoma of a digestive system organ or structure following other procedure
K91872	Postproc seroma of a dgstv sys org fol a dgstv sys procedure
K91873	Postproc seroma of a dgstv sys org following other procedure
K9189	Other postprocedural complications and disorders of digestive system
L7601	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating a dermatologic procedure

FY2019 ICD-10-CM diagnosis code	Code description
L7602	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating other procedure
L7611	Accidental puncture and laceration of skin and subcutaneous tissue during a dermatologic procedure
L7612	Accidental puncture and laceration of skin and subcutaneous tissue during other procedure
L7621	Postprocedural hemorrhage and hematoma of skin and subcutaneous tissue following a dermatologic procedure
L7622	Postprocedural hemorrhage and hematoma of skin and subcutaneous tissue following other procedure
L7631	Postprocedural hematoma of skin and subcutaneous tissue following a dermatologic procedure
L7632	Postprocedural hematoma of skin and subcutaneous tissue following other procedure
L7633	Postproc seroma of skin, subcu fol a dermatologic procedure
L7634	Postproc seroma of skin, subcu following other procedure
L7681	Other intraoperative complications of skin and subcutaneous tissue
L7682	Other postprocedural complications of skin and subcutaneous tissue
M9665	Fracture of pelvis following insertion of orthopedic implant, joint prosthesis, or bone plate
M9669	Fracture of other bone following insertion of orthopedic implant, joint prosthesis, or bone plate
M96810	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating a musculoskeletal system procedure
M96811	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating other procedure
M96820	Accidental puncture and laceration of a musculoskeletal structure during a musculoskeletal system procedure
M96821	Accidental puncture and laceration of a musculoskeletal structure during other procedure
M96830	Postprocedural hemorrhage and hematoma of a musculoskeletal structure following a musculoskeletal system procedure

FY2019 ICD-10-CM diagnosis code	Code description
M96831	Postprocedural hemorrhage and hematoma of a musculoskeletal structure following other procedure
M96840	Postprocedural hematoma of a musculoskeletal structure following a musculoskeletal system procedure
M96841	Postprocedural hematoma of a musculoskeletal structure following other procedure
M96842	Postproc seroma of a ms structure fol a ms sys procedure
M96843	Postproc seroma of a ms structure following other procedure
M9689	Other intraoperative and postprocedural complications and disorders of the musculoskeletal system
N990	Postprocedural (acute) (chronic) kidney failure
N99115	Postprocedural fossa navicularis urethral stricture
N9961	Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure complicating a genitourinary system procedure
N9962	Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure complicating other procedure
N9971	Accidental puncture and laceration of a genitourinary system organ or structure during a genitourinary system procedure
N9972	Accidental puncture and laceration of a genitourinary system organ or structure during other procedure
N9981	Other intraoperative complications of genitourinary system
N99820	Postprocedural hemorrhage and hematoma of a genitourinary system organ or structure following a genitourinary system procedure
N99821	Postprocedural hemorrhage and hematoma of a genitourinary system organ or structure following other procedure
N99840	Postproc hematoma of a GU sys org fol a GU sys procedure
N99841	Postproc hematoma of a GU sys org following other procedure
N99842	Postproc seroma of a GU sys org following a GU sys procedure
N99843	Postproc seroma of a GU sys org following other procedure
N9989	Other postprocedural complications and disorders of genitourinary system
O754	Other complications of obstetric surgery and procedures

FY2019 ICD-10-CM diagnosis code	Code description
O8600	Infection of obstetric surgical wound, unspecified
O8601	Infection of obstetric surgical wound, superficial incisional site
O8602	Infection of obstetric surgical wound, deep incisional site
O8603	Infection of obstetric surgical wound, organ and space site
O8604	Sepsis following an obstetrical procedure
O8609	Infection of obstetric surgical wound, other surgical site
R092	Respiratory arrest
R5082	Postprocedural fever
T800XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter
T8110XA	Postprocedural shock unspecified, initial encounter
T8111XA	Postprocedural cardiogenic shock, initial encounter
T8112XA	Postprocedural septic shock, initial encounter
T8119XA	Other postprocedural shock, initial encounter
T8140XA	Infection following a procedure, unspecified, initial encounter
T8141XA	Infection following a procedure, superficial incisional surgical site, initial encounter
T8142XA	Infection following a procedure, deep incisional surgical site, initial encounter
T8143XA	Infection following a procedure, organ and space surgical site, initial encounter
T8144XA	Sepsis following a procedure, initial encounter
T8149XA	Infection following a procedure, other surgical site, initial encounter
T81718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter
T81719A	Complication of unspecified artery following a procedure, not elsewhere classified, initial encounter
T8172XA	Complication of vein following a procedure, not elsewhere classified, initial encounter
T8182XA	Emphysema (subcutaneous) resulting from a procedure, initial encounter
T8189XA	Other complications of procedures, not elsewhere classified, initial encounter

FY2019 ICD-10-CM diagnosis code	Code description
T827XXA	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, initial encounter
T82817A	Embolism of cardiac prosthetic devices, implants and grafts, initial encounter
T82818A	Embolism of vascular prosthetic devices, implants and grafts, initial encounter