

Supplemental Table 1. Diagnosis and procedure codes used to define 21 indicators of maternal and fetal morbidity as specified by the Centers for Disease Control and Prevention

Severe maternal morbidity indicator	ICD-9-CM code	ICD-10-CM code
Acute myocardial infarction	410.xx	I21x, I22x
Aneurysm	441.xx	I71x, I790
Acute renal failure	584.5, 584.6, 584.7, 584.8, 584.9, 669.3x	N17x, O904
Adult respiratory distress syndrome	518.5x, 518.81 518.82 518.84, 799.1	J80, J951, J952, J953, J9582x, J962x, R092
Amniotic fluid embolism	673.1x	O881x
Cardiac arrest/ventricular fibrillation	427.41, 427.42, 427.5	I490x, I46x
Disseminated intravascular coagulation	286.6, 286.9, 666.3x	D65, D688, D689, O723
Eclampsia	642.6x	O159, O150x, O151, O152
Heart failure/arrest during surgery or procedure	997.1	I9712x, I9613x
Pre-term delivery		
Puerperal cerebrovascular disorders	430.xx, 431.xx, 432.xx, 433.xx, 434.xx, 436.xx, 437.xx, 671.5x, 674.0x, 997.02	I60xx-I68xx, O2250, O2251, O2252, O2253, I9781x, I9782x, O873, G08, G43601, G43609, G43611, G43619, G439, G43901, G43909, G43911, G43919, G931, G9340, G9341, G9349, G936, P110, S061, I97811, I97821
Pulmonary edema/Acute heart failure	518.4, 428.1, 428.0, 428. 21, 428.23, 428.31, 428.33, 428.41, 428.43	J810, I501, I5020, I5021, I5023, I5030, I5031, I5033, I5040, I5041, I5043, I509
Severe anesthesia complications	668.0x, 668.1x, 668.2x	O740, O741, O742, O743, O890x, O891, O892
Sepsis	038.xx, 995.91, 995.92, 670.2x	A40x, A41x, A327, R6520, O85, T80211A, T814XXA
Shock	669.1x, 785.5x, 995.0, 995.4, 998.0x	O751, R57x, R6521, T782XXA, T882XXA, T886XXA, T8110XA, T8111XA, T8119XA
Sickle cell disease with crisis	282.42, 282.62, 282.64, 282.69	D5741x, D570x, D5721x, D5781x
Air and thrombotic embolism	415.1x, 673.0x, 673.2x, 673.3x, 673.8x	126.x, O88.0x, O88.2x, O88.3x, O88.8x
Blood transfusion	99.0x	30233H0, 30233N0, 30243H0, 30243N0, 30253H0, 30253N0, 30263H0, 30263N0, 30233H1, 30233N1, 30243H1, 30243N1, 30253H1, 30253N1, 30263H1, 30263N1
Conversion of cardiac rhythm	99.6x	5A12012, 5A2204Z

Hysterectomy	68.3x-68.9x	OUT90ZZ, OUT94ZZ, OUT97ZZ, OUT98ZZ, OUT9FZZ
Temporary tracheostomy	31.1	OB110F, OB110Z, OB113, OB114
Ventilation	93.90, 96.01, 96.02, 96.03, 96.05	5A1935Z, 5A1945Z, 5A1955Z
Severe fetal morbidity indicator	ICD-9-CM code	ICD-10-CM code
Intrauterine growth restriction	764.9	O36.5
Premature/preterm delivery	644	O60

*ICD 9/10 codes include all the available subcategory codes