**Supplemental table 1: Coding errors identified in categories associated with maternal morbidity.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Maternal Morbidity Category** | **Institution** | **Code** | **# Errors**  | **Definition** | **Error Category** |
| Disorders of fluid, electrolyte and acid–base balance | UMHS | 276.52 | 2 | Hypovolemia | A |
| Acute respiratory distress | MGH | 518.0 | 2 | Other diseases of lung | A |
| Ventilation | UMHS | 93.9 | 2 | Non-invasive mechanical ventilation | A |
|   | MGH | 96.04 | 1 | Insertion Of Endotracheal Tube | A |
| Other complications of obstetric surgery | MGH | 669.42 | 1 | Other complications of obstetrical surgery and procedures, delivered, with mention of postpartum complication | A |
|  | MGH | 669.41 | 1 | Other complications of obstetrical surgery and procedures, delivered, with or without mention of antepartum condition | C |
| Shock | MGH | 669.11 | 1 | Shock during or following labor and delivery, delivered, with or without mention of antepartum condition | A |
|   | UMHS | 995.0 | 1 | Certain adverse effects not elsewhere classified, other anaphylactic reaction | A |
| Disorders of coagulation | MGH | 286.9 | 2 | Other and unspecified coagulation defects | A |
|   | MGH | 649.31 | 1 | Coagulation defects complicating pregnancy, childbirth, or the puerperium | A |
|   | MGH | 666.32 | 1 | Postpartum coagulation defects, delivered, with mention of postpartum complication | A |
|   | UMHS | 286.9 | 3 | Other and unspecified coagulation defects | B |
|  | MGH | 286.6 | 1 | Disseminated intravascular coagulation [defibrination syndrome] | C |
| Acute renal Failure | MGH | 584.5 | 1 | Acute kidney failure with lesion of tubular necrosis | A |
|   | MGH | 669.32 | 2 | Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication | A |
|   | UMHS | 669.32 | 4 | Acute kidney failure following labor and delivery, delivered, with mention of postpartum complication | A |
| Neurotrauma | UMHS | 851.26 | 1 | Cortex (cerebral) laceration without mention of open intracranial wound, with loss of consciousness of unspecified duration | A |
| Thromboembolism | MGH | 673.01 | 1 | Obstetrical air embolism, delivered, with or without mention of antepartum condition | A |
|   | MGH | 673.21 | 2 | Obstetrical blood-clot embolism, delivered, with or without mention of antepartum condition | B |
|   | UMHS | 673.21 | 5 | Obstetrical blood-clot embolism, delivered, with or without mention of antepartum condition | B |
| Acute heart failure (includes arrest and fibrillation) | MGH | 997.1 | 2 | Cardiac conditions not specified elsewhere, but include conduction block, ischemia and cardiac procedure complication. | A |
|   | UMHS | 997.1 | 2 | Cardiac conditions not specified elsewhere, but include conduction block, ischemia and cardiac procedure complication. | A |
| Puerperal cerebrovascular disorders | UMHS | 674.02 | 1 | Cerebrovascular disorders in the puerperium, delivered, with mention of postpartum complication | A |
|   | UMHS | 671.52 | 4 | Other phlebitis and thrombosis complicating pregnancy and the puerperium, delivered, with mention of postpartum complication | A |
|  | UMHS | 434.91 | 1 | Cerebral artery occlusion, unspecified with cerebral infarction | B |
|   | MGH | 437.3 | 2 | Cerebral aneurysm, nonruptured | B |
|   | MGH | 437.5 | 1 | Moyamoya disease | B |
|   | UMHS | 674.01 | 3 | Cerebrovascular disorders in the puerperium, delivered, with or without mention of antepartum condition | B |
| Eclampsia | MGH | 642.61 | 10 | Eclampsia (seizures), delivered, with or without mention of antepartum condition | C |
|   | UMHS | 642.61 | 3 | Eclampsia (seizures), delivered, with or without mention of antepartum condition | C |
| Severe anesthesia complications | MGH | 668.22 | 1 | Central nervous system complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication | A |
|   | UMHS | 995.86 | 1 | Malignant hyperpyrexia due to anesthesia | A |
|  | MGH | 668.01 | 2 | Pulmonary complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition | C |
|   | UMHS | 668.02 | 1 | Pulmonary complications of anesthesia or other sedation in labor and delivery, delivered, with mention of postpartum complication | C |
|   | MGH | 668.11 | 1 | Cardiac complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition | C |
|   | MGH | 668.21 | 1 | Central nervous system complications of anesthesia or other sedation in labor and delivery, delivered, with or without mention of antepartum condition | C |
|   |   | **Total:** | **71** |   |   |

Supplemental table 1: In total, 71 coding errors were identified, listed by maternal morbidity category and associated ICD-9 code. A. Lack of clinical or lab evidence supporting the condition; B. History of related condition, but no clinical or lab evidence of diagnosis impacting current pregnancy; C = Confusion between possible or expected side effects and actual complications. Total errors by category: A = 34, B = 17, C = 20. MGH = Massachusetts General Hospital; UMHS = University of Michigan Health System; Code = ICD-9-CM code.