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| **Appendix 1.** Variable definitions based on ICD-9 diagnosis codes |
| **Complication** | **ICD-9 code** | **Description** |
| **Acute Myocardial Infarction** | 410.XX | Acute myocardial infarction |
| **Other Cardiovascular** | 426.0X | Atrioventricular block, complete |
| 427.3X | Atrial fibrillation and flutter |
| 427.4X | Ventricular fibrillation and flutter |
| 427.5X | Cardiac arrest |
| 429.4X | Functional disturbances following cardiac surgery |
| 785.51 | Cardiogenic shock |
| 997.1X | Cardiac complications |
| **Hemorrhage/Hematoma** | 998.1X | Hemorrhage or hematoma or seroma complicating a procedure |
| **Stroke** | 433.01 | Basilar artery with cerebral infarction |
| 433.11 | Carotid artery with cerebral infarction |
| 433.21 | Vertebral artery with cerebral infarction |
| 433.31 | Multiple and bilateral with cerebral infarction |
| 433.81 | Other specified precerebral artery with cerebral infarction |
| 433.91 | Unspecified precerebral artery with cerebral infarction |
| 434.01 | Cerebral thrombosis with cerebral infarction |
| 434.11 | Cerebral embolism with cerebral infarction |
| 434.91 | Cerebral artery occulsion unspecified with cerebral infarction |
| 997.02 | Iatrogenic cerebrovascular infarction or hemorrhage |
| **Pulmonary** | 466.XX | Acute bronchitis and bronchiolitis |
| 512.1X | Iatrogenic pneumothorax |
| 514.XX | Pulmonary congestion and hypostasis |
| 518.0X | Pulmonary collapse |
| 518.4X | Acute edema of lung, unspecified |
| 518.5X | Pulmonary insufficiency following trauma and surgery |
| 518.81 | Acute respiratory failure |
| 518.82 | Other pulmonary insufficiency, not elsewhere classified |
| 799.10 | Respiratory arrest |
| 997.3X | Respiratory complications |
| **Pneumonia** | 480.0X | Pneumonia due to adenovirus |
| 480.1X | Pneumonia due to respiratory syncytial virus |
| 480.2X | Pneumonia due to parainfluenza virus |
| 480.8X | Pneumonia due to other virus not elsewhere classified |
| 480.9X | Viral pneumonia, unspecified |
| 481.XX | Pneumococcal pneumonia |
| 482.XX | Other bacterial pneumonia |
| 483.XX | Pneumonia due to other specified organism |
| 485.XX | Bronchopneumonia, organism unspecified |
| 486.XX | Pneumonia, organism unspecified |
| 487.XX | Influenza |
| 997.31 | Ventilator associated pneumonia |
| **Sepsis/Septic Shock** | 038.XX | Septicemia |
| 790.70 | Bacteremia |
| 785.52 | Septic shock |
| 995.4X | Shock due to anesthesia |
| 998.02 | Postoperative shock |
| **Wound** | 729.92 | Nontraumatic hematoma of soft tissue |
| 998.12 | Hematoma complicating a procedure |
| 998.13 | Seroma complicating a procedure |
| 998.3X | Disruption of wound |
| 998.51 | Infected postoperative seroma |
| 998.6X | Persistent postoperative fistula |
| 998.83 | Non-healing surgical wound |
| **Venous Thromboembolism** | 415.1X | Pulmonary embolism and infarction |
| 451.XX | Phlebitis and thrombophlebitis |
| 453.2X | Other venous embolism and thrombosis of inferior vena cava |
| 453.4X | Acute venous embolism and thrombosis of deep vessels of lower extremity |
| 453.8X | Acute venous embolism and thrombosis of other specified veins |
| 453.9X | Venous embolism and thrombosis of unspecified site |
| **Acute Renal Failure** | 584.XX | Acute kidney failure |
| **Other Renal** | 586.XX | Renal failure, unspecified |
| 591.XX | Hydronephrosis |
| 599.1X | Urethra fistula |
| 599.60 | Urinary obstruction, unspecified |
| 997.50 | Urinary complications |
| **Delirium** | 292.81 | Drug-induced delirium |
| 293.0X | Delirium due to conditions classified elsewhere |
| 293.1X | Subacute delirium |
| 293.9X | Unspecified transient mental disorder in conditions classified elsewhere |
| 780.09 | Other general symptoms, drowsiness, semicoma, unconsciousness, somnolence, stupor |
| 780.97 | Altered mental state |
| 797.XX | Senility without mention of psychosis |
| **Inpatient Falls** | E849.7 | Injury at a residential institution |
| E884.4 | Fall from bed |