**Supplementary Material 2.** ICD-9 Codes for Perioperative Complications

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| **Complication** | **ICD-9-CM** | **Description** |
| Cardiovascular | 997.1 | Cardiac complications, not elsewhere specified |
|   | 997.2 | Peripheral vascular complications, not elsewhere specified |
|   | 997.79 | Vascular complications of other vessels |
|   | 998.0 410.0-410.9 | Cardiac complications, acute myocardial infarction |
| Pulmonary | 512.1 | Pneumothorax |
|   | 518.4 | Acute edema of lung, unspecified |
|   | 518.5 | Pulmonary insufficiency following trauma and surgery |
|   | 997.3 | Respiratory complications not elsewhere classified |
|   | 415.1 | Respiratory complications, pulmonary embolism |
| Post-operative infection | 998.5, 999.3  | Postoperative infections |
|   | 998.51 | Infected postoperative seroma |
|   | 599.0 | Urinary tract infection |
|   | 998.59 | Other postoperative infection (abscess) |
|   | 995.91 | Sepsis |
| Gastrointestinal  |  |  |
|  | 560.1 | Post-operative ileus  |
|  | 557.0 | Acute Ischemic colitis |
|  | 008.45 | Pseudomembranous colitis |
|  | 997.4 997.41 997.49 | Gastrointestinal complications not elsewhere classified |
| Renal  |  |  |
|  | 584 | Acute Renal failure |
|  |  | 590.1, 590.2, 590.8, 590.9, 591, 593.3, 593.4, 593.5, 593.81, 593.82, 595.89, 596.1, 596.2, 596.6, 997.5 |
| Perioperative stroke |   | 433.01, 433.11, 433.21, 433.31, 433.81, 433.91, 434.00, 434.01, 434.10, 434.11, 434.90, 434.91, 436, 430, 431, 432.0, 432.1, 432.9, 997.02 |