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| **Supplementary Table 1**. ICD-9 CM and HCPCS codes for procedures and diagnoses during index admission |
| Procedures | ICD-9-CM Codes |  |
| biopsy | 1.11-1.15, 1.18, 1.19 |  |
| surgical resection | 1.23-1.25, 1.31, 1.32, 1.39,1.51-1.53, 1.59, 1.60 |  |
| **Complications** |  |  |
| neurologic  | 997.00-997.09 |   |
| pulmonary  | 518.81-518.85, 997.3 |  |
| cerebrospinal fluid rhinorrhea | 349.81 |  |
| thromboembolic (include deep venous thrombosis/pulmonary embolism) | 387, 415, 451.0-451.9, 453.0-453.9 |   |
| infection | 510.0, 510.9, 038.1-038.9, 320.0-320.89, 531.10, 531.11, 519.2, 590.1-590.8, 683 |  |
| stroke | 253.5, 998.11, 997.02 |  |
| cardiac | 410, 997.1 |  |
| peripheral vascular  | 997.2 |  |
| digestive | 997.4 |  |
| urinary and renal  | 584, 997.5 |   |
| amputation stump | 997.6-997.69 |  |
| vascular complications of other vessels | 997.7-997.79 |  |
| complications affecting other specified body systems, NOS | 997.9-997.99 |  |
| hemorrhage or hematoma complicating a procedure | 998.1-998.13 |  |
| accidental puncture or laceration during procedure | 998.2 |   |
| disruption of wound  | 998.3-998.33 |  |
| foreign body accidentally left during procedure | 998.4 |   |
| postoperative infection | 998.5-998.59 |  |
| persistent postoperative fistula | 998.6 |   |
| acute reaction to foreign substance accidentally left during a procedure | 998.7 |  |
| other specified complications of procedures, NOS | 998.8-998.89 |   |
| unspecified complication of procedure, NOS | 998.9 |  |
| air embolism | 999.1 |   |
| other vascular complications | 999.2 |  |
| other infection | 999.3-999.39 |   |
| other and unspecified infusion and transfusion reaction | 999.8-999.89 |   |
| NOS- not otherwise specified |  |  |