**Supplemental Table 1**. ICD-9-CM and ICD-10-CM codes.

|  |  |  |  |
| --- | --- | --- | --- |
| **Diagnosis/Procedure** | **ICD-9-CM Code** | **Diagnosis/Procedure** | **ICD-10-CM Code** |
| ***Inclusions*** |   |   |   |
| Benign neoplasm of colon, rectum, anal canal | 211.3, 211.4 | Benign neoplasm of colon, rectum, anal canal | D12.0, D12.2-8 |
| Colectomy, proctectomy | 17.3-17.39, 45.7-45.79, 48.4-48.6 | Colectomy, proctectomy | *all laparoscopic and open codes listed below* |
| *Laparoscopic* | *Any addition of 17.4xx will make the following Robotic* | *Laparoscopic* |   |
| Laparoscopic partial excision of large intestine | 17.3 | Resection of Right Large Intestine, Perc Endo Approach **(Right)** | 0DTF4ZZ |
| Laparoscopic multiple segmental resection of large intestine (**other**) | 17.31 | Resection of Right Large Intestine, Via Opening **(Right)** | 0DTF7ZZ |
| Laparoscopic cecectomy (**right**) | 17.32 | Resection of Right Large Intestine, Endo **(Right)** | 0DTF8ZZ |
| Laparoscopic right hemicolectomy (**right**) | 17.33 | Resection of Left Large Intestine, Perc Endo Approach **(Left)** | 0DTG4ZZ |
| Laparoscopic resection of transverse colon (**right**) | 17.34 | Resection of Left Large Intestine, Via Opening **(Left)** | 0DTG7ZZ |
| Laparoscopic left hemicolectomy (**left**) | 17.35 | Resection of Left Large Intestine, Endo **(Left)** | 0DTG8ZZ |
| Laparoscopic sigmoidectomy (**left**) | 17.36 | Resection of Left Large Intestine, Via Opening w Perc Endo **(Left)** | 0DTGFZZ |
| Other laparoscopic partial excision of large intestine (**other**) | 17.39 | Resection of Cecum, Percutaneous Endoscopic Approach **(Right)** | 0DTH4ZZ |
| Laparoscopic pull-through resection of rectum (**rectum**) | 48.42 | Resection of Cecum, Via Natural or Artificial Opening **(Right)** | 0DTH7ZZ |
| *Open* |   | Resection of Cecum, Endo **(Right)** | 0DTH8ZZ |
| Open and other partial excision of large intestine | 45.7 | Resection of Ascending Colon, Perc Endo Approach **(Right)** | 0DTK4ZZ |
| Open and other multiple segmental resection of large intestine | 45.71 | Resection of Ascending Colon, Via Opening **(Right)** | 0DTK7ZZ |
| Open and other cecectomy (**right**) | 45.72 | Resection of Ascending Colon, Endo **(Right)** | 0DTK8ZZ |
| Open and other right hemicolectomy (**right**) | 45.73 | Resection of Transverse Colon, Perc Endo Approach **(Right)** | 0DTL4ZZ |
| Open and other resection of transverse colon (**right**) | 45.74 | Resection of Transverse Colon, Via Opening **(Right)** | 0DTL7ZZ |
| Open and other left hemicolectomy (**left**) | 45.75 | Resection of Transverse Colon, Endo **(Right)** | 0DTL8ZZ |
| Pull-through resection of rectum (**rectum**) | 48.4 | Resection of Transverse Colon, Via Opening w Perc Endo **(Right)** | 0DTLFZZ |
| Pull-through resection of rectum, not otherwise specified (**rectum**) | 48.40' | Resection of Descending Colon, Perc Endo Approach **(Left)** | 0DTM4ZZ |
| Open pull-through resection of rectum (**rectum**) | 48.43 | Resection of Descending Colon, Via Opening **(Left)** | 0DTM7ZZ |
| Other pull-through resection of rectum (**rectum**) | 48.49 | Resection of Descending Colon, Endo **(Left)** | 0DTM8ZZ |
|   |   | Resection of Descending Colon, Via Opening w Perc Endo **(Left)** | 0DTMFZZ |
|   |   | Resection of Sigmoid Colon, Percutaneous Endoscopic Approach **(Left)** | 0DTN4ZZ |
|   |   | Resection of Sigmoid Colon, Via Opening **(Left)** | 0DTN7ZZ |
|   |   | Resection of Sigmoid Colon, Endo **(Left)** | 0DTN8ZZ |
|   |   | Resection of Sigmoid Colon, Via Opening w Perc Endo **(Left)** | 0DTNFZZ |
|   |   | Resection of Rectum, Percutaneous Endoscopic Approach (**Rectum)** | 0DTP4ZZ |
|   |   | Resection of Rectum, Via Natural or Artificial Opening **(Rectum)** | 0DTP7ZZ |
|   |   | Resection of Rectum, Endo **(Rectum)** | 0DTP8ZZ |
|   |   | Excision of Right Large Intestine, Percutaneous Approach **(Right)** | 0DBF3ZZ |
|   |   | Excision of Left Large Intestine, Percutaneous Approach **(Left)** | 0DBG3ZZ |
|   |   | Excision of Cecum, Percutaneous Approach **(Right)** | 0DBH3ZZ |
|   |   | Excision of Transverse Colon, Percutaneous Approach **(Right)** | 0DBL3ZZ |
|   |   | Excision of Right Large Intestine, Perc Approach, Diagn **(Right)** | 0DBF3ZX |
|   |   | Excision of Right Large Intestine, Perc Endo Approach, Diagn **(Right)** | 0DBF4ZX |
|   |   | Excision of Left Large Intestine, Perc Approach, Diagn **(Left)** | 0DBG3ZX |
|   |   | Excision of Left Large Intestine, Perc Endo Approach, Diagn **(Left)** | 0DBG4ZX |
|   |   | Excision of Cecum, Percutaneous Approach, Diagnostic **(Right)** | 0DBH3ZX |
|   |   | Excision of Cecum, Percutaneous Endoscopic Approach, Diagn **(Right)** | 0DBH4ZX |
|   |   | Excision of Ascending Colon, Percutaneous Approach, Diagn **(Right)** | 0DBK3ZX |
|   |   | Excision of Ascending Colon, Perc Endo Approach, Diagn **(Right)** | 0DBK4ZX |
|   |   | Excision of Transverse Colon, Percutaneous Approach, Diagn **(Right)** | 0DBL3ZX |
|   |   | Excision of Transverse Colon, Perc Endo Approach, Diagn **(Right)** | 0DBL4ZX |
|   |   | Excision of Descending Colon, Percutaneous Approach, Diagn **(Left)** | 0DBM3ZX |
|   |   | Excision of Descending Colon, Perc Endo Approach, Diagn **(Left)** | 0DBM4ZX |
|   |   | Excision of Sigmoid Colon, Percutaneous Approach, Diagnostic **(Left)** | 0DBN3ZX |
|   |   | Excision of Sigmoid Colon, Perc Endo Approach, Diagn **(Left)** | 0DBN4ZX |
|   |   | Excision of Rectum, Percutaneous Approach, Diagnostic **(Rectum)** | 0DBP3ZX |
|   |   | Excision of Right Large Intestine, Perc Endo Approach **(Right)** | 0DBF4ZZ |
|   |   | Excision of Right Large Intestine, Via Opening **(Right)** | 0DBF7ZZ |
|   |   | Excision of Left Large Intestine, Perc Endo Approach **(Left)** | 0DBG4ZZ |
|   |   | Excision of Left Large Intestine, Via Opening **(Left)** | 0DBG7ZZ |
|   |   | Excision of Left Large Intestine, Via Opening w Perc Endo **(Left)** | 0DBGFZZ |
|   |   | Excision of Cecum, Percutaneous Endoscopic Approach **(Right)** | 0DBH4ZZ |
|   |   | Excision of Cecum, Via Natural or Artificial Opening **(Right)** | 0DBH7ZZ |
|   |   | Excision of Ascending Colon, Perc Endo Approach **(Right)** | 0DBK4ZZ |
|   |   | Excision of Ascending Colon, Via Opening **(Right)** | 0DBK7ZZ |
|   |   | Excision of Transverse Colon, Perc Endo Approach **(Right)** | 0DBL4ZZ |
|   |   | Excision of Transverse Colon, Via Opening **(Right)** | 0DBL7ZZ |
|   |   | Excision of Transverse Colon, Via Opening w Perc Endo **(Right)** | 0DBLFZZ |
|   |   | Excision of Descending Colon, Percutaneous Approach **(Left)** | 0DBM3ZZ |
|   |   | Excision of Descending Colon, Perc Endo Approach **(Left)** | 0DBM4ZZ |
|   |   | Excision of Descending Colon, Via Opening **(Left)** | 0DBM7ZZ |
|   |   | Excision of Descending Colon, Via Opening w Perc Endo **(Left)** | 0DBMFZZ |
|   |   | Excision of Sigmoid Colon, Percutaneous Approach **(Left)** | 0DBN3ZZ |
|   |   | Excision of Sigmoid Colon, Percutaneous Endoscopic Approach **(Left)** | 0DBN4ZZ |
|   |   | Excision of Sigmoid Colon, Via Natural or Artificial Opening **(Left)** | 0DBN7ZZ |
|   |   | Excision of Sigmoid Colon, Via Opening w Perc Endo **(Left)** | 0DBNFZZ |
|   |   | Excision of Rectum, Percutaneous Approach **(Rectum)** | 0DBP3ZZ |
|   |   | Excision of Rectum, Percutaneous Endoscopic Approach **(Rectum)** | 0DBP4ZZ |
|   |   | Excision of Rectum, Via Natural or Artificial Opening **(Rectum)** | 0DBP7ZZ |
|   |   | *Open* |   |
|   |   | Resection of Right Large Intestine, Open Approach **(Right)** | 0DTF0ZZ |
|   |   | Resection of Left Large Intestine, Open Approach **(Left)** | 0DTG0ZZ |
|   |   | Resection of Cecum, Open Approach **(Right)** | 0DTH0ZZ |
|   |   | Resection of Ascending Colon, Open Approach **(Right)** | 0DTK0ZZ |
|   |   | Resection of Transverse Colon, Open Approach **(Right)** | 0DTL0ZZ |
|   |   | Resection of Descending Colon, Open Approach **(Left)** | 0DTM0ZZ |
|   |   | Resection of Sigmoid Colon, Open Approach **(Left)** | 0DTN0ZZ |
|   |   | Resection of Rectum, Open Approach **(Rectum)** | 0DTP0ZZ |
|   |   | Excision of Right Large Intestine, Open Approach **(Right)** | 0DBF0ZZ |
|   |   | Excision of Left Large Intestine, Open Approach **(Left)** | 0DBG0ZZ |
|   |   | Excision of Cecum, Open Approach **(Right)** | 0DBH0ZZ |
|   |   | Excision of Ascending Colon, Open Approach **(Right)** | 0DBK0ZZ |
|   |   | Excision of Transverse Colon, Open Approach **(Right)** | 0DBL0ZZ |
|   |   | Excision of Descending Colon, Open Approach **(Left)** | 0DBM0ZZ |
|   |   | Excision of Sigmoid Colon, Open Approach **(Left)** | 0DBN0ZZ |
|   |   | Excision of Right Large Intestine, Open Approach, Diagnostic **(Right)** | 0DBF0ZX |
|   |   | Excision of Left Large Intestine, Open Approach, Diagnostic **(Left)** | 0DBG0ZX |
|   |   | Excision of Cecum, Open Approach, Diagnostic **(Right)** | 0DBH0ZX |
|   |   | Excision of Ascending Colon, Open Approach, Diagnostic **(Right)** | 0DBK0ZX |
|   |   | Excision of Transverse Colon, Open Approach, Diagnostic **(Right)** | 0DBL0ZX |
|   |   | Excision of Descending Colon, Open Approach, Diagnostic **(Left)** | 0DBM0ZX |
|   |   | Excision of Sigmoid Colon, Open Approach, Diagnostic **(Left)** | 0DBN0ZX |
|   |   | Excision of Rectum, Open Approach, Diagnostic **(Rectum)** | 0DBP0ZX |
|   |   | Excision of Rectum, Open Approach **(Rectum)** | 0DBP0ZZ |
| ***Exclusions*** |   |   |   |
| Colorectal cancer | 153-154.8, 230.3, 230.4 | Colorectal Cancer | C180, C182-C189, D010, C19, C20, C21.8, D011, D012 |
| Intestinal perforation | 569.83 | Intestinal Perforation | K631, K261, K262, K263, K265, K631, K266, K267, 269, K570, K572, K574, K578  |
| Inflammatory bowel disease | 555-555.9, 556-556.9 | Inflammatory bowel disease | K50.01, K50.01x, K50.11, K50.11x, K50.81, K50.81x, K50.91, K50.91x, K51.01, K51.01x, K51.21, K51.21x, K51.31, K51.31x, K51.41, K51.41x, K51.51, K51.51x, K51.81, K51.81x, K51.91, K51.91x |
| Total colectomy | 45.8-45.83 | Total colectomy | 0DTE4ZZ, 0DTE7ZZ, 0DTE8ZZ, 0DBE3ZZ, 0DBE3ZX, 0DBE4ZX, 0DBE4ZZ, 0DBE7ZZ, 0DTE0ZZ, 0DBE0ZZ, 0DBE0ZX |
| Diverticulitis | 562.11 | Diverticulitis | K5700, K5701, K5712, K5713, K5720, K5721, K5732, K5733, K5740, K5741, K5752, K5753, K5780, K5781, K5792, K5793 |
| ***Hospital Acquired Conditions*** |  |   |   |
| Foreign object retained after surgery | 998.4, 998.7 | Foreign object retained after surgery | T81.509A, T81.519A, T81.529A, T81.539A, T81.61XA, T81.69XA |
| Catheter associated urinary tract infection | 996.64 | Catheter associated urinary tract infection | T83.510A, T83.511A, T83.512A, T83.518A |
| Vascular catheter associated infection | 999.31-999.33 | Vascular catheter associated infection | T80.219A, T80.211A, T80.212A |
| Deep vein thrombosis and pulmonary embolism after certain orthopedic procedures (total knee replacement, hip replacement) | 415.11, 415.13, 415.19, 453.40-453.42 with procedure codes: 00.85-00.87, 81.51-81.52, 81.54 | Deep vein thrombosis and pulmonary embolism after certain orthopedic procedures (total knee replacement, hip replacement) | I26.90, I26.92, I26.99, T80.0XXA, T81.718A, T81.72XA, T82.817A, T82.818A, I82.409, I82.419, I82.429, I82.439, I82.4Y9, I82.449, I82.499, I82.4Z9 with procedure codes: 0SUA0BZ, 0SUR0BZ, 0SUE0BZ, 0SUS0BZ, 0SR90J9, 0SR90JA, 0SR90JZ, 0SRB0J9, 0SRB0JA, 0SRB0JZ, 0SRA009, 0SRA00A, 0SRA00Z, 0SRA019, 0SRA01A, 0SRA01Z, 0SRA039, 0SRA03A, 0SRA03Z, 0SRA07Z, 0SRA0J9, 0SRA0JA, 0SRA0JZ, 0SRA0KZ, 0SRE009, 0SRE00A, 0SRE00Z, 0SRE019, 0SRE01A, 0SRE01Z, 0SRE039, 0SRE03A, 0SRE03Z, 0SRE07Z, 0SRE0J9, 0SRE0JA, 0SRE0JZ, 0SRE0KZ, 0SRR019, 0SRR01A, 0SRR01Z, 0SRR039, 0SRR03A, 0SRR03Z, 0SRR07Z, 0SRR0J9, 0SRR0JA, 0SRR0JZ, 0SRR0KZ, 0SRS019, 0SRS01A, 0SRS01Z, 0SRS039, 0SRS03A, 0SRS03Z, 0SRS07Z, 0SRS0J9, 0SRS0JA, 0SRS0JZ, 0SRS0KZ, 0SRC06Z, 0SRC07Z, 0SRC0JZ, 0SRC0KZ, 0SRC0LZ, 0SRD06Z, 0SRD07Z, 0SRD0JZ, 0SRD0KZ, 0SRD0LZ, 0SRT07Z, 0SRT0JZ, 0SRT0KZ, 0SRU07Z, 0SRU0JZ, 0SRU0KZ, 0SRV07Z, 0SRV0JZ, 0SRV0KZ, 0SRW07Z, 0SRW0JZ, 0SRW0KZ |
| Falls and trauma | 800-829, 830-839, 850-854, 925-929, 940-949, 991-994 | Falls and trauma | S02-, S03-, S06-, S07-, S12-, S17-, S22-, S28-, S32-, S42-, S43-, S47-, S49-, S52-, S53-, S57-, S62-, S63-, S67-, S72-, S73-, S77-, S82-, S83-, S87-, S92-, S93-, S97-, T20-, T21-, T22-, T23-, T24-, T26-, T28-, T30-, T31-, T67-, T69-, T70-, T75- |
| Manifestations of poor glycemic control | 250.10-250.13, 250.20-250.23, 251.0, 249.10-249.11, 249.20-249.21 | Manifestations of poor glycemic control | E08.01, E08.10, E08.65, E09.01, E09.10, E10.10, E10.65, E10.69, E11.00, E11.01, E11.10, E11.65, E11.69, E13.00, E13.10, E15 |
| Air embolism | 999.1 | Air embolism | T80.0XXA |
| Blood incompatibility | 999.60-999.69 | Blood incompatibility | T80.30XA, T80.319A, T80.310A, T80.311A, T80.39XA |
| Pressure ulcers | 707.23-707.24 | Pressure ulcers | L89 |
| Iatrogenic pneumothorax with venous catheterization | 512.1 with procedure code: 38.93 | Iatrogenic pneumothorax with venous catheterization | J95.811 with procedure code: 02H633Z, 02HK32Z, 02HK33Z, 02HS32Z, 02HT32Z, 05HY03Z, 05HY32Z, 05HY33Z, 05HY43Z, 06HY03Z, 06HY32Z, 06HY33Z, 06HY43Z, 0JH60XZ, 0JH63XZ, 0JH80XZ, 0JH83XZ, 0JHD0XZ, 0JHD3XZ, 0JHF0XZ, 0JHF3XZ, 0JHG0XZ, 0JHG3XZ, 0JHH0XZ, 0JHH3XZ, 0JHL0XZ, 0JHL3XZ, 0JHM0XZ, 0JHM3XZ, 0JHN0XZ, 0JHN3XZ, 0JHP0XZ, 0JHP3XZ |
| **Post-operative Wound Adverse Events** |   | **Post-operative Wound Adverse Events** |   |
| Delayed wound healing | 998.83 | Delayed wound healing | T81.89XA |
| Post-operative hematoma | 998.12 | Post-operative hematoma | D78.01, D78.02, D78.31, D78, 32, E36.01, E36.02, E89.820, E89.821, G97.31, G97.32, G97.61, G97.62, H59.111, H59.112, H59.113, H59.119, H59.121, H59.122, H59.123, H59.129, H59.331, H59.332, H59.333, H59.339, H59.341, H59.342, H59.343, H59.349, H95.21, H95.22, H95.51, H95.52, I97.410, I97.411, I97.418, I97.42, I97.621, I97.630, I97.631, I97.638, J95.61, J95.62, J95.860, J95.861, K91.61, K91.62, K91.870, K91.871, L76.01, L76.02, L76.31, L76.32, M96.810, M96.811, M96.840, M96.841, N99.61, N99.62, N99.840, N99.841,  |
| Post-operative non-infected seroma | 998.13 | Post-operative non-infected seroma | D78.33, D78.34, E89.822, E89.823, G97.63, G97.64, H59.351, H59.352, H59.353, H59.359, H59.361, H59.362, H59.363, H59.369, H95.53, H95.54, I97.622, I97.640, I97.641, I97.648, J95.862, J95.863, K91.872, K91.873, L76.33, L76.34, M96.842, M96.843, N99.842, N99.843, T88.8XXA |
| Dehiscence of operative wound | 998.31, 998.32 | Dehiscence of operative wound | T81.31XA, T81.32XA |
| Persistent post-operative fistula | 998.6 | Persistent post-operative fistula | T81.83XA |
| **Post-operative Infectious Adverse Events** |  | **Post-operative Infectious Adverse Events** |   |
| Post-opeartive infection | 998.5 | Post-opeartive infection | T81.4 |
| Post-operative infected seroma | 998.51 | Post-operative infected seroma | T81.4XXA |
| Post-operative septic wound adverse event | 998.59 | Post-operative septic wound adverse event | K68.11 |
| Post-operative skin infection | 998.59 | Post-operative skin infection | K68.11 |
| Post-operative intra-abdominal abscess | 998.59 | Post-operative intra-abdominal abscess | K68.11 |
| Post-operative subdiaphragmatic abscess | 998.59 | Post-operative subdiaphragmatic abscess | K68.11 |
| Bacteremia or sepsis | 790.7, 038.0-9 | Bacteremia or sepsis | R78.81, A40.3, A40.9, A41.4, A41.89, A41.9 |
| **Post-opearative Urinary Adverse Events** |  | **Post-opearative Urinary Adverse Events** |   |
| Post-operative urinary retention | 997.5 | Post-operative urinary retention | N99.89 |
| Post-operative urinary tract infection | 997.5 | Post-operative urinary tract infection | N99.89 |
| Post-operative acute renal failure | 997.5 | Post-operative acute renal failure | N99.89 |
| **Post-operative Pulmonary Adverse Events** |  | **Post-operative Pulmonary Adverse Events** |   |
| Post-operative atelectasis | 997.3 | Post-operative atelectasis | J95.851, J95.89, J95.859, J95.88, J95.89 |
| Post-operative pneumonia (aspiration) | 997.3 | Post-operative pneumonia (aspiration) | J95.851, J95.89, J95.859, J95.88, J95.89 |
| Acute respiratory failure | 518.4, 518.5, 518.81, 518.82 | Acute respiratory failure | J80, J81.0, J95.1, J95.2, J95.3, J95.821, J95.822, J96.00, J96.20, J96.90, R06.03 |
| Post-operative pneumothorax | 512.2 | Post-operative pneumothorax | J95.812 |
| Post-operative pulmonary edema | 518.4 | Post-operative pulmonary edema | J81.0 |
| **Post-operative Gastrointestinal Adverse Events** |  | **Post-operative Gastrointestinal Adverse Events** |   |
| Post-operative small bowel obstruction | 997.4 | Post-operative small bowel obstruction | K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| Post-operative ileus | 997.4, 560.1 | Post-operative ileus | K56.0, K56.7, K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| Post-operative nausea and vomiting | 997.4 | Post-operative nausea and vomiting | K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| Post-operative pancreatitis | 997.4 | Post-operative pancreatitis | K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| Complication of anastomosis of gastrointestinal tract | 997.4 | Complication of anastomosis of gastrointestinal tract | K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| Hepatic failure following surgery | 997.4 | Hepatic failure following surgery | K91.30, K91.31, K91.32, K91.81, K91.82, K91.83, K91.86, K91.89 |
| **Post-operative Cardiac Adverse Events** |  | **Post-operative Cardiac Adverse Events** |   |
| Deep vein thrombosis | 453.40-42, 453.8, 453.9 | Deep vein thrombosis | I82.409, I82.419, I82.429, I82.439, I82.4Y9, I82.449, I82.499, I82.429, I82.619, I82.629, I82.609, I82.A19, I82.B19, I82.C19, I82.290, I82.890, I82.91 |
| Post-operative pulmonary embolism | 415.11 | Post-operative pulmonary embolism | I26.90, I26.99, T80.0XXA, T81.718A, T81.72XA, T82.817A, T82.818A |
| Post-operative cerebrovascular infarction of hemorrhage | 997.02 | Post-operative cerebrovascular infarction of hemorrhage | I97.811, I97.821 |
| Cardiac arrest or heart failure resulting from procedure | 997.1 | Cardiac arrest or heart failure resulting from procedure | I97.710, I97.790, I97.88, I97.89 |
| Acute myocardial infarction | 410.0-9 | Acute myocardial infarction | I21 |
| Post-operative shock | 998.0' | Post-operative shock | T81.10XA |
| Cardiac arrest | 427.5 | Cardiac arrest | I46.9 |
| **Intra-operative and Other Adverse Events** |  | **Intra-operative and Other Adverse Events** |   |
| Accidental puncture or laceration | 998.2 | Accidental puncture or laceration | D78.11, D78.12, E36.11, E36.12, G97.48, G97.49, H59.219, H59.229, H95.31, H95.32, I97.51, I97.52, J95.71, J95.72, K91.71, K91.72, L76.11, L76.12, M96.820, M96.821, N99.71, N99.72, T88.8XXA |
| Foreign body accidentally left during procedure | 998.4 | Foreign body accidentally left during procedure | T81.509A, T81.519A, T81.529A, T81.539A |
| Hemorrhage complicating procedure | 998.11 | Hemorrhage complicating procedure | D78.01, D78.02, D78.21, D78.22, E36.01, E36.02, E89.810, E89.811, G97.31, G97.32, G97.51, G97.52, H59.111, H59.112, H59.113, H59.119, H59.121, H59.122, H59.123, H59.129, H59.311, H59.312, H59.313, H59.319, H59.321, H59.322, H59.323, H59.329, H95.21, H95.22, H95.41, H95.42, I97.410, I97.411, I97.418, I97.42, I97.610, I97.611, I97.618, I97.620, J95.61, J95.62, J95.830, J95.831, K91.61, K91.62, K91.840, K91.841, L76.01, L76.02, L76.21, L76.22, M96.810, M96.811, M96.830, M96.831, N99.61, N99.62, N99.820, N99.821 |
| Re-opening of a recent laparotomy site | 54.12, 54.61 | Re-opening of a recent laparotomy site | 0W3G0ZZ, 0W3H0ZZ, 0W3P0ZZ, 0WJG0ZZ, 0WJH0ZZ, 0WJJ0ZZ |

ICD-9-CM: International Classification of Diseases, Ninth Revision, Clinical Modification

ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification