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|  | Supplement 2: Emergency General Surgery ICD-9 procedure codes |
|  | **ICD-9** | **Procedure** |
|  | 34.01 | Incision of chest wall - extrapleural drainage |
|  | 34.04 | Tube thoracostomy |
|  | 34.06 | Thoracoscopic drainage of pleural cavity |
|  | 34.09 | Open chest drainage |
|  | 37.12 | Pericardial window |
|  | 38.08 | Incision of vessel - lower limb vessels |
|  | 38.34 | Resection of vessel with anastomosis - aorta |
|  | 38.36 | Resection of vessel with anastomosis - abdominal vessel |
|  | 38.44 | Resection of vessel with replacement - aorta |
|  | 38.53 | Ligation and stripping of varicose veins - upper extremity |
|  | 38.63 | Other excision of vessel - upper extremity |
|  | 38.64 | Other excision of vessel - aorta |
|  | 42.82 | Suture of laceration of esophagus |
|  | 42.84 | Repair of esophageal fistula |
|  | 42.91 | Ligation of esophageal varices |
|  | 43.42 | Local excision of other lesion or tissue of stomach |
|  | 43.5 | Partial gastrectomy with anastomosis to esophagus |
|  | 43.6 | Partial gastrectomy with anastomosis to duodenum |
|  | 43.7 | Partial gastrectomy with anastomosis to jejunum |
|  | 43.91 | Total gastrectomy with intestinal interposition |
|  | 44.40 | Suture of peptic ulcer, not otherwise specified |
|  | 44.41 | Suture of gastric ulcer site |
|  | 44.42 | Suture of duodenal ulcer site |
|  | 44.61 | Suture of laceration of stomach |
|  | 44.63 | Closure of other gastric fistula |
|  | 44.91 | Ligation of gastric varices |
|  | 45.61 | Multiple segmental resection of small intestine |
|  | 45.62 | Other partial resection of small intestine |
|  | 45.63 | Total removal of small intestine |
|  | 45.71 | Open and other multiple segmental resection of large intestine |
|  | 45.72 | Open and other cecectomy |
|  | 45.73 | Open and other right hemicolectomy |
|  | 45.74 | Open and other resection of transverse colon |
|  | 45.75 | Open and other left hemicolectomy |
|  | 45.76 | Open and other sigmoidectomy |
|  | 45.79 | Other and unspecified partial excision of large intestine |
|  | 45.81 | Laparoscopic total intra-abdominal colectomy |
|  | 45.82 | Open total intra-abdominal colectomy |
|  | 45.83 | Other and unspecified total intra-abdominal colectomy |
|  | 45.90 | Intestinal anastomosis, not otherwise specified |
|  | 45.91 |  Small-to-small intestinal anastomosis |
|  | 45.92 | Anastomosis of small intestine to rectal stump; Hampton procedure |
|  | 45.93 | Other small-to-large intestinal anastomosis |
|  | 45.94 | Large-to-large intestinal anastomosis |
|  | 46.01 | Exteriorization of small intestine; Loop ileostomy |
|  | 46.02 | Resection of exteriorized segment of small intestine |
|  | 46.03 | Exteriorization of large intestine;Exteriorization of intestine NOS;Loop colostomy |
|  | 46.04 | Resection of exteriorized segment of large intestine |
|  | 46.10 | Colostomy, not otherwise specified |
|  | 46.11 | Temporary colostomy |
|  | 46.13 | Permanent colostomy |
|  | 46.20 | Ileostomy, not otherwise specified |
|  | 46.21 | Temporary ileostomy |
|  | 46.23 | Other permanent ileostomy |
|  | 46.40 | Revision of intestinal stoma |
|  | 46.42 | Repair of pericolostomy hernia |
|  | 46.60 | Fixation of intestine, not otherwise specified |
|  | 46.63 | Fixation of large intestine to abdominal wall;Cecocoloplicopexy |
|  | 46.71 | Suture of laceration of duodenum |
|  | 46.73 | Suture of laceration of small intestine, except duodenum |
|  | 46.74 | Closure of fistula of small intestine, except duodenum |
|  | 46.75 | Suture of laceration of large intestine |
|  | 46.76 | Closure of fistula of large intestine |
|  | 46.80 | Intra-abdominal manipulation of intestine, not otherwise specified |
|  | 46.81 | Intra-abdominal manipulation of small intestine |
|  | 46.82 | Intra-abdominal manipulation of large intestine |
|  | 46.93 |  Revision of anastomosis of small intestine |
|  | 46.94 | Revision of anastomosis of large intestine |
|  | 47.0 | Appendectomy |
|  | 47.01 | Laparoscopic appendectomy |
|  | 48.71 | Suture of laceration of rectum |
|  | 49.01 | Incision of perianal abscess |
|  | 49.11 | Anal fistulotomy |
|  | 49.12 | Anal fistulectomy |
|  | 49.46 | Excision of hemorrhoids |
|  | 49.47 | Evacuation of thrombosed hemorrhoids |
|  | 49.51 | Left lateral sphincterotomy |
|  | 49.71 | Suture of laceration of anus |
|  | 50.0 | Incision of abscess of liver |
|  | 51.21 | other partial cholecystectomy |
|  | 51.22 | Cholecystectomy |
|  | 51.23 | Laparoscopic cholecystectomy |
|  | 51.41 | Common duct exploration for removal of calculus |
|  | 51.42 | Common duct exploration for relief of other obstruction |
|  | 52.4 | Internal drainage of pancreatic cyst |
|  | 52.59 | Other partial pancreatectomy |
|  | 53.00 | Unilateral repair of inguinal hernia, not otherwise specified |
|  | 53.01 | Other and open repair of direct inguinal hernia Direct and indirect inguinal hernia |
|  | 53.02 | Other and open repair of indirect inguinal hernia |
|  | 53.03 | Other and open repair of direct inguinal hernia with graft or prosthesis |
|  | 53.04 | Other and open repair of indirect inguinal hernia with graft or prosthesis |
|  | 53.05 | Repair of inguinal hernia with graft or prosthesis, not otherwise specified |
|  | 53.2 | Unilateral repair of femoral hernia |
|  | 53.21 | Unilateral repair of femoral hernia with graft or prosthesis |
|  | 53.29 | Other unilateral femoral herniorrhaphy |
|  | 53.4 | Repair of umbilical hernia |
|  | 53.41 | Other and open repair of umbilical hernia with graft or prosthesis |
|  | 53.42 | Laparoscopic repair of umbilical hernia with graft or prosthesis |
|  | 53.43 | Other laparoscopic umbilical herniorrhaphy |
|  | 53.49 | Other open umbilical herniorrhaphy |
|  | 53.51 | Incisional hernia repair |
|  | 53.59 | Repair of other hernia of anterior abdominal wall |
|  | 53.6 | Repair of other hernia of anterior abdominal wall with graft or prosthesis |
|  | 53.61 | Other open incisional hernia repair with graft or prosthesis |
|  | 53.62 | Laparoscopic incisional hernia repair with graft or prosthesis |
|  | 53.63 | Other laparoscopic repair of hernia of anterior abdominal wall with graft prosthesis |
|  | 53.69 | Other open repair of hernia of anterior abdominal wall with graft or prosthesis |
|  | 53.71 | Laparoscopic repair of diaphragmatic hernia, abdominal approach |
|  | 53.72 | Other and open repair of diaphragmatic hernia, abdominal approach |
|  | 53.75 | Repair of diaphragmatic hernia, abdominal approach, not otherwise specified |
|  | 53.80 | Repair of diaphragmatic hernia with thoracic approach, not otherwise specified |
|  | 53.83 | Laparoscopic repair of diaphragmatic hernia, with thoracic approach |
|  | 53.84 | Other and open repair of diaphragmatic hernia, with thoracic approach |
|  | 53.9 | Other hernia repair |
|  | 54.0 | Incision of abdominal wall Drainage of abscess |
|  | 54.11 | Exploratory laparotomy |
|  | 54.12 | Reopening of recent laparotomy site |
|  | 54.19 | Other laparotomy - Drainage of intraperitoneal abscess or hematoma |
|  | 54.3 | Debridement of abdominal wall |
|  | 54.5 | Lysis of peritoneal adhesions |
|  | 54.51 | Laparoscopic lysis of peritoneal adhesions |
|  | 57.81 | Suture of laceration of bladder |
|  | 57.82 | Closure of cystotomy |
|  | 57.83 | Repair of fistula involving bladder and intestine |
|  | 83.14 | Fasciotomy |
|  | 83.44 | Other fasciectomy |
|  | 83.45 | Other myectomy |
|  | 83.49 | Other excision of soft tissue |
|  | 84.00 | Upper limb amputation, not otherwise specified |
|  | 84.05 | Amputation through forearm Forearm amputation |
|  | 84.06 | Disarticulation of elbow |
|  | 84.07 | Amputation through humerus Upper arm amputation |
|  | 84.08 | Disarticulation of shoulder |
|  | 84.09 | Forequarter amputation |
|  | 84.10 | Lower limb amputation, not otherwise specified |
|  | 84.13 | Disarticulation of ankle |
|  | 84.15 | Other amputation below knee |
|  | 84.16 | Disarticulation of knee |
|  | 84.17 | Amputation above knee |
|  | 84.18 | Disarticulation of hip |
|  | 84.91 | Amputation, not otherwise specified |
|  | 85.0 | Mastotomy |
|  | 86.01 | Aspiration of skin and subcutaneous tissue |
|  | 86.03 | Incision of pilonidal sinus or cyst |
|  | 86.04 | Other incision with drainage of skin and subcutaneous tissue |
|  | 86.21 | Excision of pilonidal cyst or sinus |
|  | 86.22 | Excisional debridement of wound, infection, or burn |
|  | 86.28 | Nonexcisional debridement of wound, infection or burn |
|  | 98.05 | Removal of intraluminal foreign body from rectum or anus without incision |