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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 | |