

<b>Table 5.09 Infection</b>		
Code	ICD-9-CM Description	Shortened Description
996.62	Infection and inflammatory reaction due to other vascular device, implant, and graft	REACT-OTH VASC DEV/GRAFT
996.63	Infection and inflammatory reaction due to nervous system device, implant, and graft	REACT-NERV SYS DEV/GRAFT
996.64	Infection and inflammatory reaction due to indwelling urinary catheter	REACT-INDWELL URIN CATH
996.65	Infection and inflammatory reaction due to genitourinary device, implant, and graft	REACT-OTH GENITOURIN DEV
996.66	Infection and inflammatory reaction due to internal joint prosthesis	REACT-INTER JOINT PROST
996.67	Infection and inflammatory reaction due to other internal orthopedic device, implant, and graft	REACT-OTH INT ORTHO DEV
996.68	Infection and inflammatory reaction due to peritoneal dialysis catheter	REACT- PERITON DIALY CATH
996.69	Infection and inflammatory reaction due to other internal prosthetic device, implant, and graft	REACT-INT PROS DEVIC NEC
997.31	Ventilator associated pneumonia	VENTLTR ASSOC PNEUMONIA
998.51	Infected postoperative seroma	INFECTED POSTOP SEROMA
998.59	Other postoperative infection	OTHER POSTOP INFECTION

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<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
00.70	Revision of hip replacement, both acetabular and femoral components	REV HIP REPL-ACETAB/FEM
00.71	Revision of hip replacement, acetabular component	REV HIP REPL-ACETAB COMP
00.72	Revision of hip replacement, femoral component	REV HIP REPL-FEM COMP
00.73	Revision of hip replacement, acetabular liner and/or femoral head only	REV HIP REPL-LINER/HEAD
00.77	Hip bearing surface, ceramic-on-polyethylene	HIP SURFACE, CERMC/POLY
00.80	Revision of knee replacement, total (all components)	REV KNEE REPLACEMT-TOTAL
00.81	Revision of knee replacement, tibial component	REV KNEE REPL-TIBIA COMP
00.82	Revision of knee replacement, femoral component	REV KNEE REPL-FEMUR COMP

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
00.83	Revision of knee replacement, patellar component	REV KNEE REPLACE-PATELLA
00.84	Revision of knee replacement, tibial insert (liner)	REV KNEE REPL-TIBIA LIN
00.85	Resurfacing hip, total, acetabulum and femoral head	RESRF HIP,TOTAL-ACET/FEM
00.86	Resurfacing hip, partial, femoral head	RESRF HIP,PART-FEM HEAD
00.87	Resurfacing hip, partial, acetabulum	RESRF HIP,PART-ACETABLUM
01.21	Incision and drainage of cranial sinus	CRANIAL SINUS I & D
01.23	Reopening of craniotomy site	REOPEN CRANIOTOMY SITE
01.24	Other craniotomy	OTHER CRANIOTOMY
01.25	Other craniectomy	OTHER CRANIECTOMY
01.31	Incision of cerebral meninges	INCISE CEREBRAL MENINGES
01.32	Lobotomy and tractotomy	LOBOTOMY & TRACTOTOMY
01.39	Other incision of brain	OTHER BRAIN INCISION
01.41	Operations on thalamus	THALAMUS OPERATIONS
01.42	Operations on globus pallidus	GLOBUS PALLIDUS OPS
01.51	Excision of lesion or tissue of cerebral meninges	EX CEREB MENINGEAL LES
01.52	Hemispherectomy	HEMISPHERECTOMY
01.53	Lobectomy of brain	BRAIN LOBECTOMY
01.59	Other excision or destruction of lesion or tissue of brain	OTHER BRAIN EXCISION
17.31	Laparoscopic multiple segmental resection of large intestine	LAP MUL SEG RES LG INTES
17.32	Laparoscopic cecectomy	LAPAROSCOPIC CECECTOMY
17.33	Laparoscopic right hemicolectomy	LAP RIGHT HEMICOLECTOMY
17.34	Laparoscopic resection of transverse colon	LAP RES TRANSVERSE COLON
17.35	Laparoscopic left hemicolectomy	LAP LEFT HEMICOLECTOMY
17.36	Laparoscopic sigmoidectomy	LAP SIGMOIDECTOMY
17.39	Laparoscopic partial excision of large intestine	LAP PT EX LRG INTEST NEC
32.39	Other and unspecified segmental resection of lung	OTH SEG LUNG RESECT NOS
32.49	Other lobectomy of lung	LOBECTOMY OF LUNG NEC
32.59	Other and unspecified pneumonectomy	OTHER PNEUMONECTOMY NOS
34.51	Decortication of lung	DECORTICATION OF LUNG
34.59	Other excision of pleura	OTHER PLEURAL EXCISION

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
34.81	Excision of lesion or tissue of diaphragm	EXCISE DIAPHRAGM LESION
34.82	Suture of laceration of diaphragm	SUTURE DIAPHRAGM LACERAT
34.83	Closure of fistula of diaphragm	CLOSE DIAPHRAGM FISTULA
34.84	Other repair of diaphragm	OTHER DIAPHRAGM REPAIR
34.89	Other operations on diaphragm	DIAPHRAGM OPERATION NEC
35.10	Open heart valvuloplasty without replacement, unspecified valve	OPEN VALVULOPLASTY NOS
35.11	Open heart valvuloplasty of aortic valve without replacement	OPN AORTIC VALVULOPLASTY
35.12	Open heart valvuloplasty of mitral valve without replacement	OPN MITRAL VALVULOPLASTY
35.13	Open heart valvuloplasty of pulmonary valve without replacement	OPN PULMON VALVULOPLASTY
35.14	Open heart valvuloplasty of tricuspid valve without replacement	OPN TRICUS VALVULOPLASTY
35.20	Replacement of unspecified heart valve	REPLACE HEART VALVE NOS
35.21	Replacement of aortic valve with tissue graft	REPLACE AORT VALV- TISSUE
35.22	Other replacement of aortic valve	REPLACE AORTIC VALVE NEC
35.23	Replacement of mitral valve with tissue graft	REPLACE MITR VALV- TISSUE
35.24	Other replacement of mitral valve	REPLACE MITRAL VALVE NEC
35.25	Replacement of pulmonary valve with tissue graft	REPLACE PULM VALV- TISSUE
35.26	Other replacement of pulmonary valve	REPLACE PULMON VALVE NEC
35.27	Replacement of tricuspid valve with tissue graft	REPLACE TRIC VALV- TISSUE
35.28	Other replacement of tricuspid valve	REPLACE TRICUSP VALV NEC
35.31	Operations on papillary muscle	PAPILLARY MUSCLE OPS
35.32	Operations on chordae tendineae	CHORDAE TENDINEAE OPS
35.33	Annuloplasty	ANNULOPLASTY
35.34	Infundibulectomy	INFUNDIBULECTOMY
35.35	Operations on trabeculae carneae cordis	TRABECUL CARNEAE CORD OP

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
35.39	Operations on other structures adjacent to valves of heart	TISS ADJ TO VALV OPS NEC
35.42	Creation of septal defect in heart	CREATE SEPTAL DEFECT
35.50	Repair of unspecified septal defect of heart with prosthesis	PROSTH REP HRT SEPTA NOS
35.51	Repair of atrial septal defect with prosthesis, open technique	PROS REP ATRIAL DEF-OPN
35.53	Repair of ventricular septal defect with prosthesis, open technique	PROS REP VENTRIC DEF-OPN
35.54	Repair of endocardial cushion defect with prosthesis	PROS REP ENDOCAR CUSHION
35.60	Repair of unspecified septal defect of heart with tissue graft	GRFT REPAIR HRT SEPT NOS
35.61	Repair of atrial septal defect with tissue graft	GRAFT REPAIR ATRIAL DEF
35.62	Repair of ventricular septal defect with tissue graft	GRAFT REPAIR VENTRIC DEF
35.63	Repair of endocardial cushion defect with tissue graft	GRFT REP ENDOCAR CUSHION
35.70	Other and unspecified repair of unspecified septal defect of heart	HEART SEPTA REPAIR NOS
35.71	Other and unspecified repair of atrial septal defect	ATRIA SEPTA DEF REP NEC
35.72	Other and unspecified repair of ventricular septal defect	VENTR SEPTA DEF REP NEC
35.73	Other and unspecified repair of endocardial cushion defect	ENDOCAR CUSHION REP NEC
35.81	Total repair of tetralogy of Fallot	TOT REPAIR TETRAL FALLOT
35.82	Total repair of total anomalous pulmonary venous connection	TOTAL REPAIR OF TAPVC
35.83	Total repair of truncus arteriosus	TOT REP TRUNCUS ARTERIOS
35.84	Total correction of transposition of great vessels, not elsewhere classified	TOT COR TRANSPOS GRT VES
35.91	Interatrial transposition of venous return	INTERAT VEN RETRN TRANSP
35.92	Creation of conduit between right ventricle and pulmonary artery	CONDUIT RT VENT-PUL ART
35.93	Creation of conduit between left ventricle and aorta	CONDUIT LEFT VENTR-AORTA
35.94	Creation of conduit between atrium and pulmonary artery	CONDUIT ARTIUM-PULM ART
35.98	Other operations on septa of heart	OTHER HEART SEPTA OPS
35.99	Other operations on valves of heart	OTHER HEART VALVE OPS

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
36.03	Open chest coronary artery angioplasty	OPEN CORONRY ANGIOPLASTY
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	AORTOCORONARY BYPASS NOS
36.11	(Aorto)coronary bypass of one coronary artery	AORTOCOR BYPAS-1 COR ART
36.12	(Aorto)coronary bypass of two coronary arteries	AORTOCOR BYPAS-2 COR ART
36.13	(Aorto)coronary bypass of three coronary arteries	AORTOCOR BYPAS-3 COR ART
36.14	(Aorto)coronary bypass of four or more coronary arteries	AORTCOR BYPAS-4+ COR ART
36.15	Single internal mammary-coronary artery bypass	1 INT MAM-COR ART BYPASS
36.16	Double internal mammary-coronary artery bypass	2 INT MAM-COR ART BYPASS
36.17	Abdominal - coronary artery bypass	ABD-CORON ARTERY BYPASS
36.19	Other bypass anastomosis for heart revascularization	HRT REVAS BYPS ANAS NEC
36.31	Open chest transmyocardial revascularization	OPEN CHEST TRANS REVASC
36.32	Other transmyocardial revascularization	OTH TRANSMYO REVASCULAR
36.39	Other heart revascularization	OTH HEART REVASCULAR
36.91	Repair of aneurysm of coronary vessel	CORON VESS ANEURYSM REP
36.99	Other operations on vessels of heart	HEART VESSEL OP NEC
37.10	Incision of heart, not otherwise specified	INCISION OF HEART NOS
37.11	Cardiotomy	CARDIOTOMY
37.32	Excision of aneurysm of heart	HEART ANEURYSM EXCISION
37.33	Excision or destruction of other lesion or tissue of heart, open approach	EXC/DEST HRT LESION OPEN
37.35	Partial ventriculectomy	PARTIAL VENTRICULECTOMY
37.36	Excision or destruction of left atrial appendage (LAA)	EXC LEFT ATRIAL APPENDAG
37.41	Implantation of prosthetic cardiac support device around the heart	IMPL CARDIAC SUPPORT DEV
37.49	Other repair of heart and pericardium	HEART/PERICARD REPR NEC
37.51	Heart transplantation	HEART TRANSPLANTATION
37.52	Implantation of total internal biventricular heart replacement system	IMP TOT INT BI HT RP SYS

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
37.53	Replacement or repair of thoracic unit of (total) replacement heart system	REPL/REP THR UNT TOT HRT
37.54	Replacement or repair of other implantable component of (total) replacement heart system	REPL/REP OTH TOT HRT SYS
37.55	Removal of internal biventricular heart replacement system	REM INT BIVENT HRT SYS
37.60	Implantation or insertion of biventricular external heart assist system	IMP BIVN EXT HRT AST SYS
37.62	Insertion of temporary non-implantable extracorporeal circulatory assist device	INSRT NON-IMPL CIRC DEV
37.63	Repair of heart assist system	REPAIR HEART ASSIST SYS
37.64	Removal of external heart assist system(s) or device(s)	REMVE EXT HRT ASSIST SYS
37.66	Insertion of implantable heart assist system	IMPLANTABLE HRT ASSIST
37.67	Implantation of cardiomyostimulation system	IMP CARDIOMYOSTIMUL SYS
38.14	Endarterectomy, aorta	ENDARTERECTOMY OF AORTA
38.16	Endarterectomy, abdominal arteries	ABDOMINAL ENDARTERECTOMY
38.18	Endarterectomy, lower limb arteries	LOWER LIMB ENDARTERECT
38.34	Resection of vessel with anastomosis, aorta	AORTA RESECTION & ANAST
38.36	Resection of vessel with anastomosis, abdominal arteries	ABD VESSEL RESECT/ANAST
38.37	Resection of vessel with anastomosis, abdominal veins	ABD VEIN RESECT & ANAST
38.44	Resection of vessel with replacement, aorta, abdominal	RESECT ABDM AORTA W REPL
38.48	Resection of vessel with replacement, lower limb arteries	LEG ARTERY RESEC W REPLA
38.49	Resection of vessel with replacement, lower limb veins	LEG VEIN RESECT W REPLAC
38.64	Other excision of vessels, aorta, abdominal	EXCISION OF AORTA
39.25	Aorta-iliac-femoral bypass	AORTA-ILIAC-FEMOR BYPASS
39.26	Other intra-abdominal vascular shunt or bypass	INTRA-ABDOMIN SHUNT NEC
39.29	Other (peripheral) vascular shunt or bypass	VASC SHUNT & BYPASS NEC
41.5	Total splenectomy	TOTAL SPLENECTOMY
42.01	Incision of esophageal web	ESOPHAGEAL WEB INCISION

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
42.09	Other incision of esophagus	ESOPHAGEAL INCISION NEC
42.10	Esophagostomy, not otherwise specified	ESOPHAGOSTOMY NOS
42.11	Cervical esophagostomy	CERVICAL ESOPHAGOSTOMY
42.12	Exteriorization of esophageal pouch	ESOPH POUCH EXTERIORIZAT
42.19	Other external fistulization of esophagus	EXT FISTULIZAT ESOPH NEC
42.40	Esophagectomy, not otherwise specified	ESOPHAGECTOMY NOS
42.41	Partial esophagectomy	PARTIAL ESOPHAGECTOMY
42.42	Total esophagectomy	TOTAL ESOPHAGECTOMY
42.51	Intrathoracic esophagoesophagostomy	THORAC ESOPHAGOEESOPHAGOS
42.52	Intrathoracic esophagogastrostomy	THORAC ESOPHAGOGASTROST
42.53	Intrathoracic esophageal anastomosis with interposition of small bowel	THORAC SM BOWEL INTERPOS
42.54	Other intrathoracic esophagoenterostomy	THORAC ESOPHAGOENTER NEC
42.55	Intrathoracic esophageal anastomosis with interposition of colon	THORAC LG BOWEL INTERPOS
42.56	Other intrathoracic esophagocolostomy	THORAC ESOPHAGOCOLOS NEC
42.58	Intrathoracic esophageal anastomosis with other interposition	THORAC INTERPOSITION NEC
42.59	Other intrathoracic anastomosis of esophagus	THORAC ESOPHAG ANAST NEC
42.61	Antesternal esophagoesophagostomy	STERN ESOPHAGOEESOPHAGOST
42.62	Antesternal esophagogastrostomy	STERN ESOPHAGOGASTROSTOM
42.63	Antesternal esophageal anastomosis with interposition of small bowel	STERN SM BOWEL INTERPOS
42.64	Other antesternal esophagoenterostomy	STERN ESOPHAGOENTER NEC
42.65	Antesternal esophageal anastomosis with interposition of colon	STERN LG BOWEL INTERPOS
42.66	Other antesternal esophagocolostomy	STERN ESOPHAGOCOLOS NEC
42.68	Other antesternal esophageal anastomosis with interposition	STERN INTERPOSITION NEC
42.69	Other antesternal anastomosis of esophagus	STERN ESOPHAG ANAST NEC

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
42.82	Suture of laceration of esophagus	SUTURE ESOPHAGEAL LACER
42.83	Closure of esophagostomy	ESOPHAGOSTOMY CLOSURE
42.84	Repair of esophageal fistula, not elsewhere classified	ESOPH FISTULA REPAIR NEC
42.85	Repair of esophageal stricture	ESOPHAG STRICTURE REPAIR
42.86	Production of subcutaneous tunnel without esophageal anastomosis	PROD SUBQ TUNNEL NO ANAS
42.87	Other graft of esophagus	ESOPHAGEAL GRAFT NEC
42.89	Other repair of esophagus	ESOPHAGEAL REPAIR NEC
43.5	Partial gastrectomy with anastomosis to esophagus	PROXIMAL GASTRECTOMY
43.6	Partial gastrectomy with anastomosis to duodenum	DISTAL GASTRECTOMY
43.7	Partial gastrectomy with anastomosis to jejunum	PART GASTREC W JEJ ANAST
43.81	Partial gastrectomy with jejunal transposition	PART GAST W JEJ TRANSPOS
43.89	Other partial gastrectomy	PARTIAL GASTRECTOMY NEC
43.91	Total gastrectomy with intestinal interposition	TOT GAST W INTES INTERPO
43.99	Other total gastrectomy	TOTAL GASTRECTOMY NEC
44.00	Vagotomy, not otherwise specified	VAGOTOMY NOS
44.01	Truncal vagotomy	TRUNCAL VAGOTOMY
44.02	Highly selective vagotomy	HIGHLY SELECT VAGOTOMY
44.03	Other selective vagotomy	SELECTIVE VAGOTOMY NEC
44.21	Dilation of pylorus by incision	DILATE PYLORUS, INCISION
44.29	Other pyloroplasty	OTHER PYLOROPLASTY
44.31	High gastric bypass	HIGH GASTRIC BYPASS
44.39	Other gastroenterostomy	GASTROENTEROSTOMY NEC
44.40	Suture of peptic ulcer, not otherwise specified	SUTURE PEPTIC ULCER NOS
44.41	Suture of gastric ulcer site	SUT GASTRIC ULCER SITE
44.42	Suture of duodenal ulcer site	SUTURE DUODEN ULCER SITE
44.5	Revision of gastric anastomosis	REVISION GASTRIC ANASTOM
44.61	Suture of laceration of stomach	SUTURE GASTRIC LACERAT



<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
44.63	Closure of other gastric fistula	CLOSE GASTRIC FISTUL NEC
44.64	Gastropexy	GASTROPEXY
44.65	Esophagogastroplasty	ESOPHAGOGASTROPLASTY
44.66	Other procedures for creation of esophagogastric sphincteric competence	CREAT ESOPHAGASTR SPHINC
44.69	Other (Inversion of gastric diverticulum, repair of stomach NOS)	GASTRIC REPAIR NEC
44.91	Ligation of gastric varices	LIGATE GASTRIC VARICES
44.92	Intraoperative manipulation of stomach	INTRAOP GASTRIC MANIPUL
44.99	Other operations on stomach	GASTRIC OPERATION NEC
45.00	Incision of intestine, not otherwise specified	INTESTINAL INCISION NOS
45.01	Incision of duodenum	DUODENAL INCISION
45.02	Other incision of small intestine	SMALL BOWEL INCISION NEC
45.03	Incision of large intestine	LARGE BOWEL INCISION
45.31	Other local excision of lesion of duodenum	OTH EXCISE DUODENUM LES
45.32	Other destruction of lesion of duodenum	DESTRUCT DUODEN LES NEC
45.33	Local excision of lesion or tissue of small intestine, except duodenum	LOCAL EXCIS SM BOWEL NEC
45.34	Other destruction of lesion of small intestine, except duodenum	DESTR SM BOWEL LES NEC
45.41	Excision of lesion or tissue of large intestine	EXCISE LG INTESTINE LES
45.49	Other destruction of lesion of large intestine	DESTRUC LG BOWEL LES NEC
45.50	Isolation of intestinal segment, not otherwise specified	INTEST SEG ISOLAT NOS
45.51	Isolation of segment of small intestine	SM BOWEL SEGMENT ISOLAT
45.52	Isolation of segment of large intestine	LG BOWEL SEGMENT ISOLAT
45.61	Multiple segmental resection of small intestine	MULT SEG SM BOWEL EXCIS
45.62	Other partial resection of small intestine	PART SM BOWEL RESECT NEC
45.63	Total removal of small intestine	TOTAL REMOVAL SM BOWEL
45.71	Open and other multiple segmental resection of large intestine	OPN MUL SEG LG INTES NEC
45.72	Open and other cecectomy	OPEN CECECTOMY NEC
45.73	Open and other right hemicolectomy	OPN RT HEMICOLECTOMY NEC

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
45.74	Open and other resection of transverse colon	OPN TRANSV COLON RES NEC
45.75	Open and other left hemicolectomy	OPN LFT HEMICOLECTMY NEC
45.76	Open and other sigmoidectomy	OPEN SIGMOIDECTOMY NEC
45.79	Other and unspecified partial excision of large intestine	PRT LG INTES EXC NEC/NOS
45.82	Open total intra-abdominal colectomy	OP TOT INTR-ABD COLECTMY
45.83	Other and unspecified total intra-abdominal colectomy	TOT ABD COLECTMY NEC/NOS
45.90	Intestinal anastomosis, not otherwise specified	INTESTINAL ANASTOM NOS
45.91	Small-to-small intestinal anastomosis	SM-TO-SM BOWEL ANASTOM
45.92	Anastomosis of small intestine to rectal stump	SM BOWEL-RECT STUMP ANAS
45.93	Other small-to-large intestinal anastomosis	SMALL-TO-LARGE BOWEL NEC
45.94	Large-to-large intestinal anastomosis	LG-TO-LG BOWEL ANASTOM
45.95	Anastomosis to anus	ANAL ANASTOMOSIS
46.01	Exteriorization of small intestine	SM BOWEL EXTERIORIZATION
46.02	Resection of exteriorized segment of small intestine	RESECT EXT SEG SM BOWEL
46.03	Exteriorization of large intestine	LG BOWEL EXTERIORIZATION
46.04	Resection of exteriorized segment of large intestine	RESECT EXT SEG LG BOWEL
46.10	Colostomy, not otherwise specified	COLOSTOMY NOS
46.11	Temporary colostomy	TEMPORARY COLOSTOMY
46.13	Permanent colostomy	PERMANENT COLOSTOMY
46.20	Ileostomy, not otherwise specified	ILEOSTOMY NOS
46.21	Temporary ileostomy	TEMPORARY ILEOSTOMY
46.22	Continent ileostomy	CONTINENT ILEOSTOMY
46.23	Other permanent ileostomy	PERMANENT ILEOSTOMY NEC
46.42	Repair of pericostomy hernia	PERICOLOST HERNIA REPAIR
46.43	Other revision of stoma of large intestine	LG BOWEL STOMA REVIS NEC
46.50	Closure of intestinal stoma, not otherwise specified	INTEST STOMA CLOSURE NOS

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
46.51	Closure of stoma of small intestine	SM BOWEL STOMA CLOSURE
46.52	Closure of stoma of large intestine	LG BOWEL STOMA CLOSURE
46.60	Fixation of intestine, not otherwise specified	INTESTINAL FIXATION NOS
46.61	Fixation of small intestine to abdominal wall	SM BOWEL-ABD WALL FIXAT
46.62	Other fixation of small intestine	SMALL BOWEL FIXATION NEC
46.63	Fixation of large intestine to abdominal wall	LG BOWEL-ABD WALL FIXAT
46.64	Other fixation of large intestine	LARGE BOWEL FIXATION NEC
46.71	Suture of laceration of duodenum	DUODENAL LACERAT SUTURE
46.72	Closure of fistula of duodenum	DUODENAL FISTULA CLOSURE
46.75	Suture of laceration of large intestine	SUTURE LG BOWEL LACERAT
46.76	Closure of fistula of large intestine	CLOSE LG BOWEL FISTULA
46.79	Other repair of intestine	REPAIR OF INTESTINE NEC
46.91	Myotomy of sigmoid colon	MYOTOMY OF SIGMOID COLON
46.92	Myotomy of other parts of colon	MYOTOMY OF COLON NEC
46.94	Revision of anastomosis of large intestine	REVISE LG BOWEL ANASTOM
48.0	Proctotomy	PROCTOTOMY
48.1	Proctostomy	PROCTOSTOMY
48.41	Soave submucosal resection of rectum	SOAVE SUBMUC RECT RESECT
48.49	Other pull-through resection of rectum	PULL-THRU RECT RESEC NEC
48.50	Abdominoperineal resection of the rectum, not otherwise specified	ABDPERNEAL RES RECTM NOS
48.52	Open abdominoperineal resection of the rectum	OPN ABDPERNEAL RESC REC
48.59	Other abdominoperineal resection of the rectum	ABDPERNEAL RESC RECT NEC
48.61	Transsacral rectosigmoidectomy	TRANSSAC RECTOSIGMOIDECT
48.62	Anterior resection of rectum with synchronous colostomy	ANT RECT RESECT W COLOST
48.63	Other anterior resection of rectum	ANTERIOR RECT RESECT NEC
48.64	Posterior resection of rectum	POSTERIOR RECT RESECTION

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
48.65	Duhamel resection of rectum	DUHAMEL RECTAL RESECTION
48.69	Other (Partial proctectomy, rectal resection NOS)	RECTAL RESECTION NEC
48.72	Closure of proctostomy	CLOSURE OF PROCTOSTOMY
48.73	Closure of other rectal fistula	CLOSE RECTAL FIST NEC
48.74	Rectorectostomy	RECTORECTOSTOMY
48.75	Abdominal proctopexy	ABDOMINAL PROCTOPEXY
48.76	Other proctopexy	PROCTOPEXY NEC
50.0	Hepatotomy	HEPATOTOMY
50.21	Marsupialization of lesion of liver	MARSUPIALIZAT LIVER LES
50.22	Partial hepatectomy	PARTIAL HEPATECTOMY
50.29	Other destruction of lesion of liver	DESTRUC HEPATIC LES NEC
50.3	Lobectomy of liver	HEPATIC LOBECTOMY
51.31	Anastomosis of gallbladder to hepatic ducts	GB-TO-HEPAT DUCT ANAST
51.32	Anastomosis of gallbladder to intestine	GB-TO-INTESTINE ANASTOM
51.33	Anastomosis of gallbladder to pancreas	GB-TO-PANCREAS ANASTOM
51.34	Anastomosis of gallbladder to stomach	GB-TO-STOMACH ANASTOMOS
51.35	Other gallbladder anastomosis	GALLBLADDER ANASTOM NEC
51.36	Choledochoenterostomy	CHOLEDOCHOENTEROSTOMY
51.37	Anastomosis of hepatic duct to gastrointestinal tract	HEPATIC DUCT-GI ANASTOM
51.39	Other bile duct anastomosis	BILE DUCT ANASTOMOS NEC
51.41	Common duct exploration for removal of calculus	CDE FOR CALCULUS REMOV
51.42	Common duct exploration for relief of other obstruction	CDE FOR OBSTRUCTION NEC
51.49	Incision of other bile ducts for relief of obstruction	INCIS OBSTR BILE DUC NEC
51.51	Exploration of common duct	COMMON DUCT EXPLORATION
51.59	Incision of other bile duct	BILE DUCT INCISION NEC
51.61	Excision of cystic duct remnant	EXCIS CYST DUCT REMNANT
51.62	Excision of ampulla of Vater (with reimplantation of common duct)	EXCIS AMPULLA OF VATER
51.63	Other excision of common duct	COMMON DUCT EXCIS NEC

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
51.69	Excision of other bile duct	BILE DUCT EXCISION NEC
51.71	Simple suture of common bile duct	SIMPLE SUT-COMMON DUCT
51.72	Choledochoplasty	CHOLEDOCHOPLASTY
51.79	Repair of other bile ducts	BILE DUCT REPAIR NEC
51.81	Dilation of sphincter of Oddi	SPHINCTER OF ODDI DILAT
51.82	Pancreatic sphincterotomy	PANCREAT SPHINCTEROTOM
51.83	Pancreatic sphincteroplasty	PANCREAT SPHINCTEROPLAS
51.89	Other operations on sphincter of Oddi	SPHINCT OF ODDI OP NEC
51.91	Repair of laceration of gallbladder	REPAIR GB LACERATION
51.92	Closure of cholecystostomy	CLOSURE CHOLECYSTOSTOMY
51.93	Closure of other biliary fistula	CLOS BILIARY FISTUL NEC
51.94	Revision of anastomosis of biliary tract	REVIS BILE TRACT ANASTOM
51.95	Removal of prosthetic device from bile duct	REMOVE BILE DUCT PROSTH
51.99	Other operations on biliary tract	BILIARY TRACT OP NEC
52.09	Other pancreatectomy	PANCREATOTOMY NEC
52.22	Other excision or destruction of lesion or tissue of pancreas or pancreatic duct	OTHER DESTRU PANCREA LES
52.3	Marsupialization of pancreatic cyst	PANCREAT CYST MARSUPIALI
52.4	Internal drainage of pancreatic cyst	INT DRAIN PANCREAT CYST
52.51	Proximal pancreatectomy	PROXIMAL PANCREATECTOMY
52.52	Distal pancreatectomy	DISTAL PANCREATECTOMY
52.53	Radical subtotal pancreatectomy	RAD SUBTOT PANCREATECTOM
52.59	Other partial pancreatectomy	PARTIAL PANCREATECT NEC
52.6	Total pancreatectomy	TOTAL PANCREATECTOMY
52.7	Radical pancreaticoduodenectomy	RAD PANCREATICODUODENECT
52.92	Cannulation of pancreatic duct	CANNULATION PANCREA DUC
52.95	Other repair of pancreas	PANCREATIC REPAIR NEC
52.96	Anastomosis of pancreas	PANCREATIC ANASTOMOSIS
52.99	Other operations on pancreas	PANCREATIC OPERATION NEC
53.72	Other and open repair of diaphragmatic hernia, abdominal approach	OPN ABD DIAPHRM HERN NEC

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
53.75	Repair of diaphragmatic hernia, abdominal approach, not otherwise specified	ABD REP-DIAPHR HERN NOS
53.80	Repair of diaphragmatic hernia with thoracic approach, not otherwise specified	THOR REP-DIAPH HERN NOS
53.81	Plication of the diaphragm	DIAPHRAGMATIC PPLICATION
53.82	Repair of parasternal hernia	PARASTERN HERNIA REPAIR
53.84	Other and open repair of diaphragmatic hernia, with thoracic approach	OPN THORC DIAPH HERN NEC
54.11	Exploratory laparotomy	EXPLORATORY LAPAROTOMY
54.12	Reopening of recent laparotomy site	REOPEN RECENT LAP SITE
54.19	Other laparotomy	LAPAROTOMY NEC
54.4	Excision or destruction of peritoneal tissue	DESTRUCT PERITONEAL TISS
54.59	Other lysis of peritoneal adhesions	OTH PERITON ADHESIOLYSIS
54.61	Reclosure of postoperative disruption of abdominal wall	RECLOSE POST OP DISRUPT
54.62	Delayed closure of granulating abdominal wound	DELAYED CLOS ABD WOUND
54.63	Other suture of abdominal wall	ABD WALL SUTURE NEC
54.64	Suture of peritoneum	PERITONEAL SUTURE
54.71	Repair of gastroschisis	REPAIR OF GASTROSCHISIS
54.72	Other repair of abdominal wall	ABDOMEN WALL REPAIR NEC
54.73	Other repair of peritoneum	PERITONEAL REPAIR NEC
54.74	Other repair of omentum	OMENTAL REPAIR NEC
54.75	Other repair of mesentery	MESENTERIC REPAIR NEC
54.92	Removal of foreign body from peritoneal cavity	REMOVE FB FROM PERITON
54.94	Creation of peritoneovascular shunt	CREAT PERITONEOVAS SHUNT
54.95	Incision of peritoneum	PERITONEAL INCISION
55.4	Partial nephrectomy	PARTIAL NEPHRECTOMY
55.51	Nephroureterectomy	NEPHROURETERECTOMY
55.52	Nephrectomy of remaining kidney	SOLITARY KIDNEY NEPHRECT
55.53	Removal of transplanted or rejected kidney	REJECTED KIDNEY NEPHRECT
55.54	Bilateral nephrectomy	BILATERAL NEPHRECTOMY

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
56.51	Formation of cutaneous uretero-ileostomy	FORM CUTAN ILEOURETEROST
56.52	Revision of cutaneous uretero-ileostomy	REVIS CUTAN ILEOURETEROS
56.71	Urinary diversion to intestine	URIN DIVERSION TO BOWEL
56.72	Revision of ureterointestinal anastomosis	REVIS URETEROENTEROSTOMY
56.73	Nephrocystanastomosis, not otherwise specified	NEPHROCYSTANASTOMOSIS
56.74	Ureteroneocystostomy	URETERONEOCYSTOSTOMY
56.75	Transureteroureterostomy	TRANSURETEROURETEROSTOMY
56.79	Other anastomosis or bypass of ureter	URETERAL ANASTOMOSIS NEC
57.6	Partial cystectomy	PARTIAL CYSTECTOMY
57.71	Radical cystectomy	RADICAL CYSTECTOMY
57.79	Other total cystectomy	TOTAL CYSTECTOMY NEC
57.81	Suture of laceration of bladder	SUTURE BLADDER LACERAT
57.82	Closure of cystostomy	CYSTOSTOMY CLOSURE
57.83	Repair of fistula involving bladder and intestine	ENTEROVESICO FIST REPAIR
57.84	Repair of other fistula of bladder	VESIC FISTULA REPAIR NEC
57.85	Cystourethroplasty and plastic repair of bladder neck	CYSTOURETHROPLASTY
57.86	Repair of bladder exstrophy	BLADDER EXSTROPHY REPAIR
57.87	Reconstruction of urinary bladder	BLADDER RECONSTRUCTION
57.88	Other anastomosis of bladder	BLADDER ANASTOMOSIS NEC
57.89	Other repair of bladder	BLADDER REPAIR NEC
59.00	Retroperitoneal dissection, not otherwise specified	RETROPERIT DISSECT NOS
59.02	Other lysis of perirenal or periureteral adhesions	PERIREN ADHESIOLYS NEC
59.09	Other incision of perirenal or periureteral tissue	PERIREN/URETER INCIS NEC
60.3	Suprapubic prostatectomy	SUPRAPUBIC PROSTATECTOMY
60.4	Retropubic prostatectomy	RETROPUBIC PROSTATECTOMY
60.5	Radical prostatectomy	RADICAL PROSTATECTOMY

<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
65.22	Wedge resection of ovary	OVARIAN WEDGE RESECTION
65.29	Other local excision or destruction of ovary	LOCAL DESTR OVA LES NEC
65.39	Other unilateral oophorectomy	OTH UNILAT OOPHORECTOMY
65.49	Other unilateral salpingo-oophorectomy	OTH UNI SALPINGO-OOPHOR
65.51	Other removal of both ovaries at same operative episode	OTH REMOVE BOTH OVARIES
65.52	Other removal of remaining ovary	OTH REMOVE REMAIN OVARY
65.61	Other removal of both ovaries and tubes at same operative episode	OTH REMOVE OVARIES/TUBES
65.62	Other removal of remaining ovary and tube	OTH REMOVE REM OVA/TUBE
66.4	Total unilateral salpingectomy	TOTAL UNILAT SALPINGECT
66.51	Removal of both fallopian tubes at same operative episode	REMOVE BOTH FALLOP TUBES
66.52	Removal of remaining fallopian tube	REMOVE SOLITARY FAL TUBE
66.61	Excision or destruction of lesion of fallopian tube	DESTROY FALLOP TUBE LES
66.62	Salpingectomy with removal of tubal pregnancy	REMOV TUBE & ECTOP PREG
66.63	Bilateral partial salpingectomy, not otherwise specified	BILAT PART SALPINGEC NOS
66.69	Other partial salpingectomy	PARTIAL SALPINGECTOM NEC
68.31	Laparoscopic supracervical hysterectomy	LAP SCERVIC HYSTERECTOMY
68.49	Other and unspecified total abdominal hysterectomy	TOTAL ABD HYST NEC/NOS
68.51	Laparoscopically assisted vaginal hysterectomy (LAVH)	LAP AST VAG HYSTERECTOMY
68.59	Other and unspecified vaginal hysterectomy	VAG HYSTERECTOMY NEC/NOS
68.69	Other and unspecified radical abdominal hysterectomy	RADICAL ABD HYST NEC/NOS
68.79	Other and unspecified radical vaginal hysterectomy	RADICAL VAG HYST NEC/NOS
81.40	Repair of hip, not elsewhere classified	REPAIR OF HIP, NEC
81.51	Total hip replacement	TOTAL HIP REPLACEMENT
81.52	Partial hip replacement	PARTIAL HIP REPLACEMENT



<b>Table 5.10 Major Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
81.53	Revision of hip replacement, not otherwise specified	REVISE HIP REPLACEMT NOS
81.54	Total knee replacement	TOTAL KNEE REPLACEMENT
81.55	Revision of knee replacement, not otherwise specified	REVISE KNEE REPLACE NOS

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<b>Table 5.11 Cardiac Surgery</b>		
Code	ICD-9-CM Description	Shortened Description
35.10	Open heart valvuloplasty without replacement, unspecified valve	OPEN VALVULOPLASTY NOS
35.11	Open heart valvuloplasty of aortic valve without replacement	OPN AORTIC VALVULOPLASTY
35.12	Open heart valvuloplasty of mitral valve without replacement	OPN MITRAL VALVULOPLASTY
35.13	Open heart valvuloplasty of pulmonary valve without replacement	OPN PULMON VALVULOPLASTY
35.14	Open heart valvuloplasty of tricuspid valve without replacement	OPN TRICUS VALVULOPLASTY
35.20	Replacement of unspecified heart valve	REPLACE HEART VALVE NOS
35.21	Replacement of aortic valve with tissue graft	REPLACE AORT VALV-TISSUE
35.22	Other replacement of aortic valve	REPLACE AORTIC VALVE NEC
35.23	Replacement of mitral valve with tissue graft	REPLACE MITR VALV-TISSUE
35.24	Other replacement of mitral valve	REPLACE MITRAL VALVE NEC
35.25	Replacement of pulmonary valve with tissue graft	REPLACE PULM VALV-TISSUE
35.26	Other replacement of pulmonary valve	REPLACE PULMON VALVE NEC
35.27	Replacement of tricuspid valve with tissue graft	REPLACE TRIC VALV-TISSUE
35.28	Other replacement of tricuspid valve	REPLACE TRICUSP VALV NEC
35.31	Operations on papillary muscle	PAPILLARY MUSCLE OPS
35.32	Operations on chordae tendineae	CHORDAE TENDINEAE OPS
35.33	Annuloplasty	ANNULOPLASTY
35.34	Infundibulectomy	INFUNDIBULECTOMY