

FY 2009 Final Addenda
ICD-9-CM Volume 3, Procedures
Effective October 1, 2008

Tabular

Add inclusion term	00.3 Computer assisted surgery [CAS] <u>That without the use of robotic(s) technology</u>
Add exclusion term	Excludes: <u>robotic assisted procedures (17.41-17.49)</u>
New code	00.49 SuperSaturated oxygen therapy Aqueous oxygen (AO) therapy SSO ₂ SuperOxygenation infusion therapy Code also any: injection or infusion of thrombolytic agent (99.10) insertion of coronary artery stent(s) (36.06-36.07) intracoronary artery thrombolytic infusion (36.04) number of vascular stents inserted (00.45-00.48) number of vessels treated (00.40-00.43) open chest coronary artery angioplasty (36.03) other removal of coronary obstruction (36.09) percutaneous transluminal coronary angioplasty [PTCA] (00.66) procedure on vessel bifurcation (00.44) Excludes: other oxygen enrichment (93.96) other perfusion (39.97)
New Code	00.58 Insertion of intra-aneurysm sac pressure monitoring device (intraoperative) Insertion of pressure sensor during endovascular repair of abdominal or thoracic aortic aneurysm(s)
New code	00.59 Intravascular pressure measurement of coronary arteries Includes: fractional flow reserve (FFR) Code also any synchronous diagnostic or therapeutic procedures Excludes: intravascular pressure measurement of intrathoracic arteries (00.67)
Add code also note	00.66 Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy Code also any: <u>SuperSaturated oxygen therapy (00.49)</u>

New code	00.67 Intravascular pressure measurement of intrathoracic arteries Assessment of: aorta and aortic arch carotid Code also any synchronous diagnostic or therapeutic procedures
New code	00.68 Intravascular pressure measurement of peripheral arteries Assessment of: other peripheral vessels vessels of arm(s) vessels of leg(s) Code also any synchronous diagnostic or therapeutic procedures
New code	00.69 Intravascular pressure measurement, other specified and unspecified vessels Assessment of: iliac vessels intra-abdominal vessels mesenteric vessels renal vessels Code also any synchronous diagnostic or therapeutic procedures Excludes: intravascular pressure measurement of: coronary arteries (00.59) intrathoracic arteries (00.67) peripheral arteries (00.68)
Revise exclusion term	03.53 Repair of vertebral fracture Excludes: kypoplasty <u>percutaneous vertebral augmentation</u> (81.66)
Revise exclusion term	<u>percutaneous</u> vertebroplasty (81.65)
New chapter	3A Other miscellaneous diagnostic and therapeutic procedures
New category	17 Other miscellaneous procedures
New subcategory	17.1 Laparoscopic unilateral repair of inguinal hernia Excludes: other and open unilateral repair of hernia (53.00 – 53.05)

New code	17.11 Laparoscopic repair of direct inguinal hernia with graft or prosthesis Laparoscopic repair of direct and indirect inguinal hernia with graft or prosthesis
New code	17.12 Laparoscopic repair of indirect inguinal hernia with graft or prosthesis
New code	17.13 Laparoscopic repair of inguinal hernia with graft or prosthesis, not otherwise specified
New subcategory	17.2 Laparoscopic bilateral repair of inguinal hernia Excludes: other and open bilateral repair of hernia (53.10 – 53.17)
New code	17.21 Laparoscopic bilateral repair of direct inguinal hernia with graft or prosthesis
New code	17.22 Laparoscopic bilateral repair of indirect inguinal hernia with graft or prosthesis
New code	17.23 Laparoscopic bilateral repair of inguinal hernia, one direct and one indirect, with graft or prosthesis
New code	17.24 Laparoscopic bilateral repair of inguinal hernia with graft or prosthesis, not otherwise specified
New subcategory	17.3 Laparoscopic partial excision of large intestine Excludes: other and open partial excision of large intestine (45.71-45.79)
New code	17.31 Laparoscopic multiple segmental resection of large intestine
New code	17.32 Laparoscopic cecectomy
New code	17.33 Laparoscopic right hemicolectomy
New code	17.34 Laparoscopic resection of transverse colon
New code	17.35 Laparoscopic left hemicolectomy
New code	17.36 Laparoscopic sigmoidectomy
New code	17.39 Other laparoscopic partial excision of large intestine

New subcategory	17.4 Robotic assisted procedures Computer assisted robotic surgery Computer-enhanced robotic surgery Robotic procedure with computer assistance Surgeon-controlled robotic surgery Code first primary procedure Excludes: computer assisted surgery (00.31-00.35, 00.39) Note: This category includes use of a computer console with (3-D) imaging, software, camera(s), visualization and instrumentation <i>combined</i> with the use of robotic arms, device(s), or system(s) at the time of the procedure.
New code	17.41 Open robotic assisted procedure Robotic assistance in open procedure
New code	17.42 Laparoscopic robotic assisted procedure Robotic assistance in laparoscopic procedure
New code	17.43 Percutaneous robotic assisted procedure Robotic assistance in percutaneous procedure
New code	17.44 Endoscopic robotic assisted procedure Robotic assistance in endoscopic procedure
New code	17.45 Thoracoscopic robotic assisted procedure Robotic assistance in thoracoscopic procedure
New code	17.49 Other and unspecified robotic assisted procedure Robotic assistance in other and unspecified procedure Excludes: endoscopic robotic assisted procedure (17.44) laparoscopic robotic assisted procedure (17.42) open robotic assisted procedure (17.41) percutaneous robotic assisted procedure (17.43) thoracoscopic robotic assisted procedure (17.45)
Add inclusion term Add code also note	31.1 Temporary tracheostomy <u>Temporary percutaneous dilatational tracheostomy [PDT]</u> Code also any synchronous bronchoscopy, if performed (33.21 – 33.24, 33.27)
Add inclusion term	31.29 Other permanent tracheostomy <u>Permanent percutaneous dilatational tracheostomy [PDT]</u>

Add code also note Code also any synchronous bronchoscopy, if performed (33.21 – 33.24, 33.27)

Add exclusion term 33.29 Other diagnostic procedures on lung and bronchus
Excludes: endoscopic pulmonary airway flow measurement (33.72)

Revise subcategory title 33.7 ~~Other E endoscopic insertion, replacement, and removal of therapeutic device or substances~~ procedures in bronchus or lung

Delete inclusion term ~~Biologic lung volume reduction (BLVR)~~

New Code 33.72 Endoscopic pulmonary airway flow measurement
Assessment of pulmonary airway flow
Code also any diagnostic or therapeutic procedure if performed

Delete inclusion term 36.33 Endoscopic transmyocardial revascularization
~~Robot-assisted transmyocardial revascularization~~

Add exclusion term 37.33 Excision or destruction of other lesion or tissue of heart, open approach
Excludes: excision or destruction of left atrial appendage (LAA) (37.36)

New Code 37.36 Excision or destruction of left atrial appendage (LAA)
Includes: Thoracoscopic approach, minithoracotomy approach
Clipping of left atrial appendage
Exclusion of left atrial appendage
Oversewing of left atrial appendage
Stapling of left atrial appendage
Code also any concomitant procedure performed
Excludes: ablation, excision or destruction of lesion or tissue of heart, endovascular approach (37.34)

Revise code title 37.52 Implantation of total internal biventricular heart replacement heart system

Delete inclusion term ~~Implantation of fully implantable total replacement heart system, including ventriculectomy~~

Revise exclusion term Excludes: implantation of heart assist system [VAD] (37.62, 37.65, 37.66, 37.68)

Add note	<u>Note: This procedure includes substantial removal of part or all of the biological heart. Both ventricles are resected, and the native heart is no longer intact. Ventriculectomy is included in this procedure; do not code separately.</u>
Revise code title	37.53 Replacement or repair of thoracic unit of (total) replacement heart system
Revise code title	37.54 Replacement or repair of other implantable component of (total) replacement heart system
Revise exclusion term	Excludes: replacement or repair of thoracic unit of (total) replacement heart system (37.53)
New code	<p>37.55 Removal of internal biventricular heart replacement system Explantation of artificial heart Code also any concomitant procedure, such as: combined heart-lung transplantation (33.6) heart transplantation (37.51) implantation of internal biventricular heart replacement system (37.52)</p> <p>Excludes: explantation [removal] of external heart assist system (37.64) explantation [removal] of percutaneous external heart assist device (97.44) nonoperative removal of heart assist system (97.44) that with replacement or repair of heart replacement system (37.53, 37.54)</p>
Revise subcategory title	37.6 Implantation of heart and circulatory assist system(s)
New code	<p>37.60 Implantation or insertion of biventricular external heart assist system Temporary cardiac support for both left and right ventricles, inserted in the same operative episode</p> <p>Includes: open chest (sternotomy) procedure for cannulae attachments</p>

Note: Device (outside the body but connected to heart) with external circulation pump. Ventriculotomy is included; do not code separately.

Excludes: implantation of internal biventricular heart replacement system (artificial heart) (37.52)
implant of pulsation balloon (37.61)
insertion of percutaneous external heart assist device (37.68)
insertion of temporary non-implantable extracorporeal circulatory assist device (37.62)

Revise code title	37.62 Insertion of <u>temporary non-implantable extracorporeal heart circulatory assist system device</u>
Add inclusion term	<u>Acute circulatory support device</u>
Add inclusion term	<u>Short-term circulatory support (up to six hours)</u>
	Excludes:
Revise exclusion term	implantation of total <u>internal biventricular heart replacement heart system [artificial heart] (37.52)</u>
Add exclusion term	<u>implant of external heart assist system (37.65)</u>
Add exclusion term	<u>insertion of implantable extracorporeal heart assist system (37.66)</u>
Add exclusion term	<u>removal of heart assist system (37.64)</u>
Add note	<u>Note: Includes explanation of this device; do not code separately.</u>
	37.63 Repair of heart assist system
Revise exclusion term	Excludes: replacement or repair of other implantable component of (total) replacement heart system [artificial heart] (37.54)
Revise exclusion term	replacement or repair of thoracic unit of (total) replacement heart system [artificial heart] (37.53)
Revise code title	37.64 Removal of <u>external heart assist system(s) or device(s)</u>
Add inclusion term	<u>Explantation of external device(s) providing left and right ventricular support</u>
Add inclusion term	<u>Explantation of single external device and cannulae</u>
Add exclusion term	Excludes: <u>temporary non-implantable extracorporeal circulatory assist device (37.62)</u>
Revise code title	37.65 Implant of <u>single ventricular (extracorporeal) external heart assist system</u>

Add inclusion term	<u>Insertion of one device into one ventricle</u>
Revise exclusion term	Excludes: implantation of total <u>internal biventricular heart replacement heart system (37.52)</u>
Add exclusion term	<u>insertion of implantable heart assist system (37.66)</u>
Add exclusion term	<u>insertion or implantation of two external VADs for simultaneous right and left heart support (37.60)</u>
Add exclusion term	<u>that without sternotomy (37.62)</u>
Add note	<u>Note: Insertion or implantation of one external VAD for left or right heart support.</u>
Revise exclusion term	37.66 Insertion of implantable heart assist system Excludes: implantation of total <u>internal biventricular heart replacement heart system [artificial heart] (37.52)</u>
New code	38.23 Intravascular spectroscopy Includes: imaging of both coronary and peripheral vessels Intravascular chemography Near infrared (NIR) spectroscopy Excludes: intravascular imaging of: coronary vessels (00.24) peripheral vessels (00.23)
Revise exclusion term	38.99 Other puncture of vein Excludes: that for: angiography of veins (88.60- 88.69 <u>88.68</u>)
Revise exclusion term	phlebography (88.60- 88.69 <u>88.68</u>)
Revise exclusion term	39 Other operations on vessels Excludes: those on coronary vessels (36.00 <u>36.03-36.99</u>)
Add code also note	39.71 Endovascular implantation of graft in abdominal aorta <u>Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)</u>
Add code also note	39.73 Endovascular implantation of graft in thoracic aorta <u>Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)</u>

39.97 Other perfusion
Add exclusion note Excludes: SuperSaturated oxygen therapy (00.49)

44.32 Percutaneous [endoscopic] gastrojejunostomy
Delete inclusion term ~~Endoscopic conversion of gastrostomy to jejunostomy~~
Add inclusion term Bypass:
Add inclusion term gastroduodenostomy
Revise inclusion term ~~PEG PEGJJ~~
Add exclusion term Excludes: percutaneous (endoscopic) feeding jejunostomy (46.32)

45.41 Excision of lesion or tissue of large intestine
Revise exclusion term Excludes: multiple segmental resection (17.31, 45.71)

45.6 Other excision of small intestine
Revise exclusion term Excludes: cecectomy (17.32, 45.72)
enterolectomy (17.39, 45.79)
Revise exclusion term ileolectomy (17.33, 45.73)

45.62 Other partial resection of small intestine
Revise exclusion term Excludes: resection of cecum and terminal ileum (17.32, 45.72)

45.7 Open and other pPartial excision of large intestine
Revise subcategory title
Add exclusion term Excludes: laparoscopic partial excision of large intestine (17.31 – 17.39)

45.71 Open and other mMultiple segmental resection of large intestine
Revise code title

45.72 Open and other cCecectomy
Revise code title

45.73 Open and other rRight hemicolectomy
Revise code title

45.74 Open and other rResection of transverse colon
Revise code title

45.75 Open and other lLeft hemicolectomy
Revise code title

Revise code title	45.76	<u>Open and other s</u> Sigmoidectomy
Revise code title	45.79	<u>Other and unspecified</u> partial excision of large intestine
New subcategory	45.8	Total intra-abdominal colectomy Excision of cecum, colon, and sigmoid Excludes: colectomy (48.41-48.69)
New code	45.81	Laparoscopic total intra-abdominal colectomy
New code	45.82	Open total intra-abdominal colectomy
New code	45.83	Other and unspecified total intra-abdominal colectomy
Add inclusion term	46.32	Percutaneous (endoscopic) jejunostomy [PEJ] <u>Endoscopic conversion of gastrostomy to jejunostomy</u>
Add inclusion term		<u>Percutaneous (endoscopic) feeding enterostomy</u>
Add exclusion term		<u>Excludes: percutaneous [endoscopic] gastrojejunostomy (bypass) (44.32)</u>
New code	48.40	Pull-through resection of rectum, not otherwise specified Pull-through resection NOS Excludes: abdominoperineal pull-through NOS (48.50)
New code	48.42	Laparoscopic pull-through resection of rectum
New code	48.43	Open pull-through resection of rectum
Add exclusion term	48.49	Other pull-through resection of rectum Excludes: <u>laparoscopic pull-through resection of rectum (48.42)</u> <u>open pull-through resection of rectum (48.43)</u> <u>pull-through resection of rectum, not otherwise specified (48.40)</u>
New subcategory	48.5	Abdominoperineal resection of rectum Includes: with synchronous colostomy Combined abdominoendorectal resection Complete proctectomy Code also any synchronous anastomosis other than end-to-end (45.90, 45.92-45.95)

Excludes: Duhamel abdominoperineal pull-through (48.65)
that as part of pelvic exenteration (68.8)

New code	48.50	Abdominoperineal resection of the rectum, not otherwise specified
New code	48.51	Laparoscopic abdominoperineal resection of the rectum
New code	48.52	Open abdominoperineal resection of the rectum
New code	48.59	Other abdominoperineal resection of the rectum Excludes: abdominoperineal resection of the rectum, NOS (48.50) laparoscopic abdominoperineal resection of the rectum (48.51) open abdominoperineal resection of the rectum (48.52)
	48.7	Repair of rectum Excludes: repair of: vaginal rectocele (70.50, 70.52, <u>70.53</u> , <u>70.55</u>)
Revise exclusion term		
Revise subcategory title	53.0	<u>Other u</u> Unilateral repair of inguinal hernia
Add exclusion term		<u>Excludes: laparoscopic unilateral repair of inguinal hernia (17.11-17.13)</u>
Revise code title	53.01	<u>Other and open r</u> Repair of direct inguinal hernia
Add inclusion term		<u>Direct and indirect inguinal hernia</u>
Revise code title	53.02	<u>Other and open r</u> Repair of indirect inguinal hernia
Revise code title	53.03	<u>Other and open r</u> Repair of direct inguinal hernia with graft or prosthesis
Revise code title	53.04	<u>Other and open r</u> Repair of indirect inguinal hernia with graft or prosthesis
Revise subcategory title	53.1	<u>Other b</u> Bilateral repair of inguinal hernia
Add exclusion term		<u>Excludes: laparoscopic bilateral repair of inguinal hernia (17.21 – 17.24)</u>

Revise code title	53.11	<u>Other and open b</u> Bilateral repair of direct inguinal hernia
Revise code title	53.12	<u>Other and open b</u> Bilateral repair of indirect inguinal hernia
Revise code title	53.13	<u>Other and open b</u> Bilateral repair of inguinal hernia, one direct and one indirect
Revise code title	53.14	<u>Other and open b</u> Bilateral repair of direct inguinal hernia with graft or prosthesis
Revise code title	53.15	<u>Other and open b</u> Bilateral repair of indirect inguinal hernia with graft or prosthesis
Revise code title	53.16	<u>Other and open b</u> Bilateral repair of inguinal hernia, one direct and one indirect, with graft or prosthesis
Revise code title	53.41	<u>Other and open r</u> Repair of umbilical hernia with graft or prosthesis
New code	53.42	Laparoscopic repair of umbilical hernia with graft or prosthesis
New code	53.43	Other laparoscopic umbilical herniorrhaphy
Revise code title	53.49	Other <u>open</u> umbilical herniorrhaphy Excludes: other laparoscopic umbilical herniorrhaphy (53.43) repair of umbilical hernia with graft or prosthesis (53.41, 53.42)
Revise code title	53.61	<u>Other open i</u> ncisional hernia repair with graft or prosthesis
Add exclusion term		<u>Excludes: laparoscopic incisional hernia repair with graft or prosthesis (53.62)</u>
New code	53.62	Laparoscopic incisional hernia repair with graft or prosthesis
New code	53.63	Other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis
Revise code title	53.69	<u>Other and open r</u> Repair of other hernia of anterior abdominal wall with graft or prosthesis
Add exclusion term		<u>Excludes: other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis (53.63)</u>

New subcategory	53.7 Repair of diaphragmatic hernia, abdominal approach
New code	53.71 Laparoscopic repair of diaphragmatic hernia, abdominal approach
New code	53.72 Other and open repair of diaphragmatic hernia, abdominal approach
New code	53.75 Repair of diaphragmatic hernia, abdominal approach, not otherwise specified Excludes: laparoscopic repair of diaphragmatic hernia (53.71) other and open repair of diaphragmatic hernia (53.72)
New code	53.83 Laparoscopic repair of diaphragmatic hernia, with thoracic approach
New code	53.84 Other and open repair of diaphragmatic hernia, with thoracic approach Excludes: repair of diaphragmatic hernia with thoracic approach, NOS (53.80)
Revise exclusion term	56.81 Lysis of intraluminal adhesions of ureter Excludes: lysis of periureteral adhesions (59.01–59.02) (<u>59.02–59.03</u>)
Revise exclusion term	ureterolysis (59.01–59.02) (<u>59.02–59.03</u>)
Add exclusion term	70.50 Repair of cystocele and rectocele <u>Excludes: repair of cystocele and rectocele with graft or prosthesis (70.53)</u>
Add exclusion term	70.51 Repair of cystocele <u>Excludes: repair of cystocele and rectocele with graft or prosthesis (70.53)</u>
Add exclusion term	<u>repair of cystocele with graft or prosthesis (70.54)</u>
Add exclusion term	70.52 Repair of rectocele <u>Excludes: repair of cystocele and rectocele with graft or prosthesis (70.53)</u>
Add exclusion term	<u>repair of rectocele with graft or prosthesis (70.55)</u>
Add code also note	75.6 Repair of other current obstetric laceration <u>Code also episiotomy, if performed (73.6)</u>

Delete exclusion term	75.69 Repair of other current obstetric laceration Excludes: repair of routine episiotomy (73.6)
Revise exclusion term	77.8 Other partial ostectomy Excludes: excision of bone ends associated with: arthrodesis (81.00-81.239, <u>81.62-81.66</u>)
Revise exclusion term	arthroplasty (81.31— 81.87 <u>81.40-81.59, 81.71-81.85</u>)
Revise subcategory title	80.5 <u>Excision, or destruction and other repair of</u> intervertebral disc
Add code also note	80.51 Excision of intervertebral disc <u>Code also any repair of the anulus fibrosus (80.53-80.54)</u>
New code	80.53 Repair of the anulus fibrosus with graft or prosthesis Anular disc repair Closure (sealing) of the anulus fibrosus defect Includes: microsurgical suture repair with fascial autograft soft tissue re-approximation repair with tension bands surgical mesh repair Code also any: application or administration of adhesion barrier substance, if performed (99.77) intervertebral discectomy, if performed (80.51) locally harvested fascia for graft (83.43)
New code	80.54 Other and unspecified repair of the anulus fibrosus Anular disc repair Closure (sealing) of the anulus fibrosus defect Microsurgical suture repair without fascial autograft Percutaneous repair of the anulus fibrosus Code also any: application or administration of adhesion barrier substance, if performed (99.77) intervertebral discectomy, if performed (80.51)
Revise code title	81.65 <u>Percutaneous v</u> Vertebroplasty
Add exclusion term	Excludes: <u>percutaneous vertebral augmentation (81.66)</u>

Revise code title	81.66 Kyphoplasty <u>Percutaneous vertebral augmentation</u>
Revise inclusion term	Insertion of inflatable balloon, bone tamp, or other device <u>displacing (removing) (compacting) bone to create a space (cavity) (void) for partial restoration of height of diseased or fractured vertebral body prior to the injection of bone void filler (cement) (polymethylmethacrylate) (PMMA) or other substance</u>
Add inclusion term	<u>Arcuplasty</u>
Add inclusion term	<u>Kyphoplasty</u>
Add inclusion term	<u>SKyphoplasty</u>
Add inclusion term	<u>Spineoplasty</u>
Revise exclusion term	Excludes: <u>percutaneous</u> vertebroplasty (81.65)
Revise exclusion term	84.55 Insertion of bone void filler Excludes: that with kyphoplasty <u>percutaneous vertebral augmentation</u> (81.66)
Revise exclusion term	that with <u>percutaneous</u> vertebroplasty (81.65)
Revise title	84.56 <u>Insertion or replacement</u> of (cement) spacer
Revise inclusion term	<u>Insertion or replacement</u> of joint (methylmethacrylate) spacer
New subcategory	85.7 Total reconstruction of breast
New code	85.70 Total reconstruction of breast, not otherwise specified Perforator flap, free
New code	85.71 Latissimus dorsi myocutaneous flap
New code	85.72 Transverse rectus abdominis myocutaneous (TRAM) flap, pedicled Excludes: transverse rectus abdominis myocutaneous (TRAM) flap, free (85.73)
New code	85.73 Transverse rectus abdominis myocutaneous (TRAM) flap, free Excludes: transverse rectus abdominis myocutaneous (TRAM) flap, pedicled (85.72)

New code	85.74	Deep inferior epigastric artery perforator (DIEP) flap, free
New code	85.75	Superficial inferior epigastric artery (SIEA) flap, free
New code	85.76	Gluteal artery perforator (GAP) flap, free
New code	85.79	Other total reconstruction of breast Excludes: deep inferior epigastric artery perforator (DIEP) flap, free (85.74) gluteal artery perforator (GAP) flap, free (85.76) latissimus dorsi myocutaneous flap (85.71) perforator flap, free (85.70) superficial inferior epigastric artery (SIEA) flap, free (85.75) total reconstruction of breast, not otherwise specified (85.70) transverse rectus abdominis myocutaneous (TRAM) flap, free (85.73) transverse rectus abdominis myocutaneous (TRAM) flap, pedicled (85.72)
	85.8	Other repair and plastic operations on breast Excludes: that for:
Revise exclusion term		reconstruction (85.70-85.76, 85.79)
Add exclusion term	86.09	Other incision of skin and subcutaneous tissue Excludes: <u>that for drainage (86.04)</u>
Add inclusion term	87.41	Computerized axial tomography of thorax <u>C.A.T. scan of heart</u>
Add exclusion term	87.42	Other tomography of thorax <u>Excludes: C.A.T. scan of heart (87.41)</u>
Add exclusion term	88.38	Other computerized axial tomography Excludes: C.A.T. scan of: <u>heart (87.41)</u>

Add exclusion term	89.37 Vital capacity determination <u>Excludes: endoscopic pulmonary airway flow measurement (33.72)</u>
Add exclusion term	89.38 Other nonoperative respiratory measurements <u>Excludes: endoscopic pulmonary airway flow measurement (33.72)</u>
Add exclusion term	89.61 Systemic arterial pressure monitoring <u>Excludes: intra-aneurysm sac pressure monitoring (intraoperative) (00.58)</u>
Add exclusion term	<u>intravascular pressure measurement of intrathoracic arteries (00.67)</u>
Add exclusion term	<u>intravascular pressure measurement of peripheral arteries (00.68)</u>
Add exclusion term	89.62 Central venous pressure monitoring <u>Excludes: intravascular pressure measurement, other specified and unspecified vessels (00.69)</u>
Add exclusion term	89.69 Monitoring of coronary blood flow <u>Excludes: intravascular pressure measurement of coronary arteries (00.59)</u>
Revise exclusion term	91.6 Microscopic examination of specimen from skin and other integument <u>Excludes: mucous membrane – code to organ site that of operative wound</u>
Revise exclusion term	<u>that of operative wound (91.70 91.71-91.79)</u>
Revise exclusion term	93.9 Respiratory therapy <u>Excludes: other continuous invasive (through endotracheal tube or tracheostomy) mechanical ventilation (96.70-96.72)</u>
Revise code title	93.90 Continuous positive airway pressure [CPAP] <u>Non-invasive mechanical ventilation</u>
Add inclusion term	<u>BiPAP without (delivery through) endotracheal tube</u>

Add inclusion term	<u>or tracheostomy</u> <u>CPAP without (delivery through) endotracheal tube</u> <u>or tracheostomy</u>
Add inclusion term	<u>Mechanical ventilation NOS</u>
Add inclusion term	<u>Non-invasive PPV</u>
Add inclusion term	<u>NPPV</u>
Add inclusion term	<u>That delivered by non-invasive interface:</u>
Add inclusion term	<u>face mask</u>
Add inclusion term	<u>nasal mask</u>
Add inclusion term	<u>nasal pillow</u>
Add inclusion term	<u>oral mouthpiece</u>
Add inclusion term	<u>oronasal mask</u>
Add exclusion term	<u>Excludes: invasive (through endotracheal tube or</u> <u>tracheostomy) continuous mechanical</u> <u>ventilation (96.70-96.72)</u>
Add note	<u>Note: Patients admitted on <i>non-invasive</i> mechanical</u> <u>ventilation that subsequently require <i>invasive</i> mechanical</u> <u>ventilation; code both types of mechanical ventilation.</u>
	93.96 Other oxygen enrichment
Add exclusion term	Excludes: <u>SuperSaturated oxygen therapy (00.49)</u>
Revise subcategory title	96.7 Other continuous <u>invasive</u> mechanical ventilation
Delete inclusion term	Intermittent mandatory ventilation (IMV)
Delete inclusion term	Positive end expiratory pressure [PEEP]
Delete inclusion term	Pressure support ventilation [PSV]
Add inclusion term	<u>BiPAP delivered through endotracheal tube</u>
Add inclusion term	<u>or tracheostomy (invasive interface)</u>
Add inclusion term	<u>CPAP delivered through endotracheal tube</u> <u>or tracheostomy (invasive interface)</u>
Add inclusion term	<u>Invasive positive pressure ventilation [IPPV]</u>
Add inclusion term	<u>Mechanical ventilation through invasive</u> <u>interface</u>
Revise exclusion term	Excludes: <u>non-invasive</u> bi-level positive airway pressure [BiPAP] (93.90)
Revise exclusion term	<u>non-invasive</u> continuous positive airway pressure [CPAP] (93.90)
Revise code title	96.70 Continuous <u>invasive</u> mechanical ventilation of unspecified duration
Revise inclusion term	<u>Invasive M</u> <u>mechanical ventilation NOS</u>

Revise code title	96.71 Continuous <u>invasive</u> mechanical ventilation for less than 96 consecutive hours
Revise code title	96.72 Continuous <u>invasive</u> mechanical ventilation for 96 consecutive hours or more
	97.14 Replacement of other device for musculoskeletal immobilization
Add inclusion term	<u>Splinting</u>
Add inclusion term	<u>Strapping</u>
	99.10 Injection or infusion of thrombolytic agent
Add exclusion term	Excludes: <u>SuperSaturated oxygen therapy (00.49)</u>
	99.2 Injection or infusion of other therapeutic or prophylactic substance
Add exclusion term	<u>Excludes: SuperSaturated oxygen therapy (00.49)</u>

Index

- Add term AbioCor® total replacement heart 37.52
- Add subterm Administration (of) - *see also* Injection
Add subterm Proleukin® (low-dose) 99.28
Add subterm high-dose 00.15
- Add term AESOP® (Automated Endoscopic System for Optimal Positioning)
- *see* category 17.4
- Aneurysmectomy 38.60
with
graft replacement (interposition) 38.40
abdominal
aorta 38.44
endovascular approach 39.71
open approach 38.44
Zenith® Renu™ AAA graft 39.71
- Add subterm Angiography (arterial) - *see also* Arteriography 88.40
Add subterm by C.A.T. – *see* Scan, C.A.T., by site
Add subterm by computed tomography – *see* Scan, C.A.T., by site
- Add term Arcuplasty 81.66
- Revise subterm Arthrodesis (compression) (extra-articular) (intra-articular) (with
bone graft) (with fixation device) 81.20
~~plantar~~ pantalar 81.11
- Add subterm Artificial
Add subterm heart 37.52
Add subterm AbioCor® 37.52
Add subterm CardioWest™ (TAH-t) 37.52
- Add subterm BiPAP 93.90
Add subterm delivered by
Add subterm endotracheal tube - *see* category 96.7
Add subterm tracheostomy – *see* category 96.7

	Bypass
Add subterm	gastroduodenostomy (Jaboulay's) 44.39 <u>percutaneous [endoscopic] 44.32</u>
Add term	<u>CardioWest™ Total Temporary Artificial Heart (TAH-t) 37.52</u>
Revise term	Cecectomy (with resection of terminal ileum) 45.72
Add subterm	<u>laparoscopic 17.32</u>
Add subterm	<u>open and other 45.72</u>
Add term	<u>CentriMag® acute circulatory support device 37.62</u>
Add subterm	Change – <i>see also</i> Replacement <u>splint 97.14</u>
Add subterm	Clipping <u>left atrial appendage 37.36</u>
Add subterm	Closure - <i>see also</i> Repair <u>annular disc 80.54</u>
Add subterm	<u>with graft or prosthesis 80.53</u>
Add subterm	<u>annulus fibrosus 80.54</u>
Add subterm	<u>with graft or prosthesis 80.53</u>
Revise term	Colectomy (partial) (segmental) (subtotal) 45.79
Revise subterm	cecum (with terminal ileum) 45.72
Add subterm	<u>laparoscopic 17.32</u>
Add subterm	<u>open and other 45.72</u>
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	left (Hartmann) (lower) (radical) 45.75
Add subterm	<u>laparoscopic 17.35</u>
Add subterm	<u>open and other 45.75</u>
Revise subterm	multiple segmental 45.74
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
Add subterm	<u>open and other 45.79</u>
Revise subterm	right (radical) 45.73
Add subterm	<u>laparoscopic 17.33</u>
Add subterm	<u>open and other 45.73</u>

Revise subterm	sigmoid 45.76
Add subterm	<u>laparoscopic 17.36</u>
Add subterm	<u>open and other 45.76</u>
Revise subterm	terminal ileum with cecum 45.72
Add subterm	<u>laparoscopic 17.32</u>
Add subterm	<u>open and other 45.72</u>
Revise subterm	total 45.8
Add subterm	<u>laparoscopic 45.81</u>
Add subterm	<u>open 45.82</u>
Add subterm	<u>other 45.83</u>
Add subterm	<u>unspecified 45.83</u>
Revise subterm	transverse 45.74
Add subterm	<u>laparoscopic 17.34</u>
Add subterm	<u>open and other 45.74</u>
Revise term	Continuous positive airway pressure ([CPAP]) (<u>non-invasive</u>) 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - see category 96.7</u>
Add subterm	<u>tracheostomy – see category 96.7</u>
Conversion	
Revise subterm	gastrostomy to jejunostomy (endoscopic) 44.32
Add subterm	<u>for feeding tube placement 46.32</u>
CPAP (continuous positive airway pressure) 93.90	
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - see category 96.7</u>
Add subterm	<u>tracheostomy – see category 96.7</u>
Add term	<u>da Vinci® (S HD) Surgical System – see category 17.4</u>
Debridement	
Add subterm	<u>tendon 83.39</u>
Destruction	
Add subterm	<u>LAA 37.36</u>
Add subterm	<u>left atrial appendage 37.36</u>
	lesion (local)
Revise subterm	heart 37.33

Add subterm by endovascular approach 37.34
Add subterm by open approach 37.33
Add subterm left atrial appendage 37.36

Add term Downstream® System (AO therapy) (aqueous oxygen) 00.49

Episiorrhaphy 71.71
Revise subterm following ~~routine~~ episiotomy - *see* Episiotomy

Excision
Add subterm appendage, left atrial 37.36
Revise subterm intestine - *see also* Resection, intestine 45.8
Revise subterm large (total) 45.8
Add subterm laparoscopic 45.81
Add subterm open 45.82
Add subterm other 45.83
Revise subterm segmental 45.79
Add subterm laparoscopic 17.39
Revise subterm multiple 45.71
Add subterm laparoscopic 17.31
Add subterm open and other 45.71
Add subterm open and other 45.79
Add subterm unspecified 45.83

Add subterm LAA 37.36
Add subterm left atrial appendage 37.36

Revise subterm Exclusion, ~~pyloric~~ 44.39
Add subterm left atrial appendage 37.36
Add subterm pyloric
Revise indent laparoscopic 44.38
Add subterm open 44.39

Gastrojejunostomy (bypass) 44.39
Revise subterm percutaneous (endoscopic) 44.32
Add subterm for bypass 44.32
Add subterm for feeding tube placement 46.32

Graft, grafting
skin (partial-thickness)(split –thickness) 86.69
pedicle (flap)(tube) 86.70
breast 85.84
Add subterm deep inferior epigastric artery perforator (DIEP)

Add subterm flap, free 85.74
 Add subterm gluteal artery perforator (GAP) flap, free 85.76
 Add subterm latissimus dorsi myocutaneous flap 85.71
 Add subterm superficial inferior epigastric artery (SIEA) flap, free 85.75
 Revised subterm transverse rectus abdominis musculocutaneous (TRAM) flap, free 85.73
 Add subterm transverse rectus abdominis myocutaneous (TRAM) flap, pedicled 85.72

Revise term Gross operation (herniorrhaphy) 53.49
 Add subterm laparoscopic 53.43
 Add subterm with graft or prosthesis 53.42
 Add subterm other and open with graft or prosthesis 53.41
 Add subterm other open 53.49

Add subterm HeartMate® implantable heart assist system 37.66
 Add subterm HeartMate® II left ventricular assist system [LVAS] 37.66

Hemicolecotomy
 Revise subterm left 45.75
 Add subterm laparoscopic 17.35
 Add subterm open and other 45.75
 Revise subterm right (extended) 45.73
 Add subterm laparoscopic 17.33
 Add subterm open and other 45.73

Revise term Ileocolicectomy 45.73
 Add subterm laparoscopic 17.33
 Add subterm open and other 45.73

Ileocectomy (partial) 45.62
 Revise subterm with cecectomy 45.72
 Add subterm laparoscopic 17.32
 Add subterm open and other 45.72

Implant, implantation
 bone void filler 84.55
 Revise subterm that with kypoplasty percutaneous vertebral augmentation 81.66

Revise subterm that with percutaneous vertebroplasty 81.65

Delete subterm ~~half heart~~ 37.62

heart

artificial 37.52

Revise subterm total internal biventricular replacement system 37.52

Add subterm AbioCor® 37.52

Add subterm CardioWest™ (TAH-t) 37.52

Revise subterm assist system ~~NEC~~ 37.62

Add subterm CentriMag® – see Insertion, circulatory support device

Add subterm external heart assist device, percutaneous – see Insertion, circulatory support device

Revise subterm external heart assist system, open approach 37.65

Add subterm HeartMate® implantable heart assist system 37.66

Add subterm HeartMate® II left ventricular assist system [LVAS] 37.66

Revise subterm non-implantable ~~37.62~~ – see Insertion, circulatory support device

Revise subterm percutaneous external ~~37.68~~ circulatory assist device – see Insertion, circulatory support device

Add subterm pulsation balloon 37.61

Revise subterm pVAD (percutaneous VAD) ~~37.68~~ – see Insertion, circulatory support device

Add subterm TandemHeart® - see Insertion, circulatory support device

Add subterm temporary non-implantable circulatory assist device - see Insertion, circulatory support device

Add subterm that for destination therapy (DT) 37.66

Revise subterm total internal biventricular replacement system 37.52

Incision (and drainage)

abscess - *see also* Incision, by site

Add subterm antecubital fossa 86.04

Add subterm axilla 86.04

Add subterm cheek 86.04

Add subterm face 86.04

Add subterm gluteal 86.04

Add subterm groin region (abdominal wall) (inguinal) 54.0

Add subterm skin 86.04

Add subterm subcutaneous tissue 86.04

Add subterm hair follicle 86.04

Add subterm nailbed or nailfold 86.04

Add subterm neck 86.04

Add subterm paronychia 86.04

Add subterm perineum (female) 71.09

Add subterm male 86.04

Add subterm popliteal space 86.04
Add subterm submaxillary 86.04
Add subterm supraclavicular fossa 86.04

Infusion (intra-arterial) (intravenous)
Add subterm interleukin-2
Add subterm high-dose 00.15
Add subterm low-dose 99.28

Insertion
bone void filler 84.55
Revise subterm that with kyphoplasty percutaneous vertebral augmentation
81.66
Revise subterm that with percutaneous vertebroplasty 81.65

Add subterm circulatory support device
Add subterm CentriMag® 37.62
Add subterm external heart assist device
Add subterm biventricular 37.60
Add subterm percutaneous 37.68
Add subterm temporary 37.62
Add subterm non-implantable 37.62
Add subterm pVAD (percutaneous VAD) 37.68
Add subterm TandemHeart® 37.68
Add subterm temporary non-implantable circulatory assist device 37.62

sensor (lead)
Add subterm intra-aneurysm sac pressure monitoring device 00.58

spine
bone void filler 84.55
Revise subterm that with kyphoplasty percutaneous vertebral augmentation
81.66
Revise subterm that with percutaneous vertebroplasty 81.65

Add term Interleukin-2, infusion
Add subterm high-dose 00.15
Add subterm low-dose 99.28

Revise term Lloyd-Davies operation (abdominoperineal resection), NOS 48.50
Add subterm laparoscopic 48.51
Add subterm open 48.52
Add subterm other 48.59

Add term Mako Tactile Guidance System™ [TGS] – see category 17.4

Mayo operation

Revise subterm herniorrhaphy 53.49
Add subterm laparoscopic 53.43
Add subterm with graft or prosthesis 53.42
Add subterm other and open with graft or prosthesis 53.41
Add subterm other open 53.49

Measurement

coronary blood flow 89.69
Add subterm fractional flow reserve (FFR) 00.59
Add subterm intravascular pressure measurement 00.59
Add subterm intravascular pressure 00.69
Add subterm coronary 00.59
Add subterm iliac 00.69
Add subterm intra-abdominal 00.69
Add subterm intrathoracic 00.67
Add subterm aorta 00.67
Add subterm aortic arch 00.67
Add subterm carotid 00.67
Add subterm mesenteric 00.69
Add subterm peripheral 00.68
Add subterm renal 00.69
Add subterm pulmonary airway flow, endoscopic 33.72

Revise term Miles operation (proctectomy), NOS 48.50
Add subterm laparoscopic 48.51
Add subterm open 48.52
Add subterm other 48.59

Monitoring

coronary blood flow (coincidence counting technique) 89.69
Add subterm fractional flow reserve (FFR) 00.59
Add subterm intravascular pressure measurement 00.59

Add subterm intra-aneurysm sac pressure 00.58
Add subterm intravascular pressure 00.69
Add subterm coronary 00.59
Add subterm iliac 00.69
Add subterm intra-abdominal 00.69
Add subterm intrathoracic 00.67

Add subterm aorta 00.67
 Add subterm aortic arch 00.67
 Add subterm carotid 00.67
 Add subterm mesenteric 00.69
 Add subterm peripheral 00.68
 Add subterm renal 00.69

systemic arterial pressure 89.61
 Add subterm intra-aneurysm sac pressure 00.58

Operation

Revise subterm abdominoperineal, NOS NEC 48.50
 Add subterm laparoscopic 48.51
 Add subterm open 48.52
 Add subterm other 48.59

Revise subterm Gabriel (abdominoperineal resection of rectum), NOS 48.50
 Add subterm laparoscopic 48.51
 Add subterm open 48.52
 Add subterm other 48.59

Revise subterm Gross (herniorrhaphy) 53.49
 Add subterm laparoscopic 53.43
 Add subterm with graft or prosthesis 53.42
 Add subterm other and open with graft or prosthesis 53.41
 Add subterm other open 53.49

Add subterm Halsted mastectomy 85.45

Revise subterm Lloyd-Davies (abdominoperineal resection), NOS 48.50
 Add subterm laparoscopic 48.51
 Add subterm open 48.52
 Add subterm other 48.59

Mayo

Revise subterm herniorrhaphy 53.49
 Add subterm laparoscopic 53.43
 Add subterm with graft or prosthesis 53.42
 Add subterm other and open with graft or prosthesis 53.41
 Add subterm other open 53.49

Revise subterm Miles (complete proctectomy), NOS 48.50
 Add subterm laparoscopic 48.51
 Add subterm open 48.52
 Add subterm other 48.59

	Rankin
Revise subterm	proctectomy (complete), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
Revise subterm	Sauer-Bacon (abdominoperineal resection), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	Oversewing
Add subterm	<u>left atrial appendage (LAA) 37.36</u>
	Oxygenation 93.96
Add subterm	<u>infusion therapy, Super 00.49</u>
	Oxygen therapy (catalytic) (pump) 93.96
Add subterm	<u>SuperSaturated 00.49</u>
Add term	<u>PDT (percutaneous dilatational tracheostomy) – see Tracheostomy</u>
Add term	<u>PEGJJ (percutaneous [endoscopic] gastrojejunostomy) 44.32</u>
Delete term	Pressure support
Delete subterm	ventilation [PSV]— see category 96.7
	Proctectomy (partial) - <i>see also</i> Resection, rectum 48.69
Revise subterm	abdominoperineal, <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
Revise subterm	complete (Miles) (Rankin), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
Revise subterm	pull-through 48.49
Add subterm	<u>laparoscopic 48.42</u>
Add subterm	<u>not otherwise specified 48.40</u>
Add subterm	<u>open 48.43</u>
Add subterm	<u>other 48.49</u>

	Rankin operation
Revise subterm	proctectomy (complete), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	Reconstruction (plastic) - <i>see also</i> Construction and Repair, by site
Revise subterm	breast, total, <u>NOS 85.70</u>
Add subterm	<u>deep inferior epigastric artery perforator (DIEP) flap, free 85.74</u>
Add subterm	<u>gluteal artery perforator (GAP) flap, free 85.76</u>
Add subterm	<u>latissimus dorsi myocutaneous flap 85.71</u>
Add subterm	<u>superficial inferior epigastric artery (SIEA) flap, free 85.75</u>
Add subterm	<u>transverse rectus abdominis musculocutaneous (TRAM) flap, free 85.73</u>
Add subterm	<u>transverse rectus abdominis myocutaneous (TRAM) flap, pedicled 85.72</u>
Revise subterm	umbilicus <u>53.49</u>
Add subterm	<u>laparoscopic 53.43</u>
Add subterm	<u>with graft or prosthesis 53.42</u>
Add subterm	<u>other and open with graft or prosthesis 53.41</u>
Add subterm	<u>other open 53.49</u>
	Removal - <i>see also</i> Excision
Add subterm	<u>artificial heart</u>
Add subterm	<u>internal biventricular replacement system 37.55</u>
Add subterm	<u>heart replacement system</u>
Add subterm	<u>internal biventricular 37.55</u>
Add subterm	<u>internal biventricular heart replacement system 37.55</u>
	Repair
Add subterm	<u>anular disc 80.54</u>
Add subterm	<u>with graft or prosthesis 80.53</u>
Add subterm	<u>anulus fibrosus 80.54</u>
Add subterm	<u>with graft or prosthesis 80.53</u>
	heart 37.49
Revise subterm	total <u>internal biventricular replacement system 37.52</u>
	hernia NEC 53.9

	anterior abdominal wall NEC 53.59
Revise subterm	with prosthesis or graft 53.69
Add subterm	<u>laparoscopic 53.63</u>
Add subterm	<u>other and open 53.69</u>
	diaphragmatic
Revise subterm	abdominal approach 53.7
Add subterm	<u>laparoscopic 53.71</u>
Add subterm	<u>other and open 53.72</u>
Add subterm	<u>unspecified 53.75</u>
	thoracic, thoracoabdominal approach 53.80
Add subterm	<u>laparoscopic 53.83</u>
Add subterm	<u>other and open 53.84</u>
	esophageal hiatus
Revise subterm	abdominal approach 53.7
Add subterm	<u>laparoscopic 53.71</u>
Add subterm	<u>other and open 53.72</u>
Add subterm	<u>unspecified 53.75</u>
	incisional 53.51
Add subterm	<u>laparoscopic with prosthesis or graft 53.62</u>
Revise subterm	<u>other open with prosthesis or graft 53.61</u>
	inguinal (unilateral) 53.00
	with prosthesis or graft 53.05
	bilateral 53.10
	with prosthesis or graft 53.17
Add subterm	<u>laparoscopic 17.24</u>
Revise subterm	direct 53.11
Add subterm	<u>laparoscopic with graft or prosthesis 17.21</u>
Add subterm	<u>other and open 53.11</u>
Revise indent	with prosthesis or graft 53.14
Revise subterm	direct and indirect 53.13
Add subterm	<u>laparoscopic with graft or prosthesis 17.23</u>
Add subterm	<u>other and open 53.13</u>
Revise indent	with prosthesis or graft 53.16
Revise subterm	indirect 53.12
Add subterm	<u>laparoscopic with graft or prosthesis 17.22</u>
Add subterm	<u>other and open 53.12</u>
Revise indent	with prosthesis or graft 53.15
Revise subterm	direct (unilateral) 53.01
Revise subterm	and indirect (unilateral) 53.01
Add subterm	<u>laparoscopic with graft or prosthesis 17.11</u>
Add subterm	<u>other and open 53.01</u>
Revise indent	with prosthesis or graft 53.03
Delete subterm	bilateral 53.13
Delete subterm	with prosthesis or graft 53.16
Delete subterm	bilateral 53.11
Delete subterm	with prosthesis or graft 53.14

Add subterm	<u>laparoscopic with graft or prosthesis 17.11</u>
Add subterm	<u>other and open 53.01</u>
Revise indent	with prosthesis or graft 53.03
Revise subterm	indirect (unilateral) 53.02
Add subterm	<u>laparoscopic with graft or prosthesis 17.12</u>
Add subterm	<u>other and open 53.02</u>
Revise indent	with prosthesis or graft 53.04
Delete subterm	and direct (unilateral) 53.01
Delete subterm	with prosthesis or graft 53.03
Delete subterm	bilateral 53.13
Delete subterm	with prosthesis or graft 53.16
Delete subterm	bilateral 53.12
Delete subterm	with prosthesis or graft 53.15
Add subterm	<u>laparoscopic with graft or prosthesis, NOS 17.13</u>
Revise subterm	paraesophageal 53.7
Add subterm	<u>laparoscopic 53.71</u>
Add subterm	<u>other and open 53.72</u>
Add subterm	<u>unspecified 53.75</u>
Revise subterm	parahiatal 53.7
Add subterm	<u>laparoscopic 53.71</u>
Add subterm	<u>other and open 53.72</u>
Add subterm	<u>unspecified 53.75</u>
Revise subterm	paraumbilical 53.49
Add subterm	<u>laparoscopic 53.43</u>
Add subterm	<u>with graft or prosthesis 53.42</u>
Revise subterm	<u>other and open with graft or prosthesis 53.41</u>
Add subterm	<u>other open 53.49</u>
Revise subterm	umbilical 53.49
Add subterm	<u>laparoscopic 53.43</u>
Add subterm	<u>with graft or prosthesis 53.42</u>
Revise subterm	<u>other and open with graft or prosthesis 53.41</u>
Add subterm	<u>other open 53.49</u>
	ventral 53.59
Add subterm	<u>with prosthesis or graft</u>
Add subterm	<u>laparoscopic 53.63</u>
Add subterm	<u>other and open 53.69</u>
	incisional 53.51
Revise subterm	<u>other open with prosthesis or graft 53.61</u>
Revise subterm	omphalocele 53.49

Add subterm	<u>laparoscopic</u> 53.43
Add subterm	<u>with graft or prosthesis</u> 53.42
Revise subterm	<u>other and open with graft or prosthesis</u> 53.41
Add subterm	<u>other open</u> 53.49
Replacement	
	heart
	artificial
Revise subterm	total <u>internal biventricular</u> replacement system 37.52
Revise subterm	total <u>internal biventricular</u> replacement system 37.52
Add subterm	<u>spacer (cement) (joint) (methylnmethacrylate)</u> 84.56
Add subterm	<u>splint</u> 97.14
Resection - <i>see also</i> Excision, by site	
Revise subterm	abdominoendorectal (combined), <u>NOS</u> 48.50
Add subterm	<u>laparoscopic</u> 48.51
Add subterm	<u>open</u> 48.52
Add subterm	<u>other</u> 48.59
Revise subterm	abdominoperineal (rectum), <u>NOS</u> 48.50
	pull-through (Altemeier) (Swenson) NEC 48.49
Add subterm	<u>laparoscopic</u> 48.42
Add subterm	<u>not otherwise specified</u> 48.40
Add subterm	<u>open</u> 48.43
Revise subterm	cecum (and terminal ileum) 45.72
Add subterm	<u>laparoscopic</u> 17.32
Add subterm	<u>open and other</u> 45.72
Revise subterm	colon (partial) (segmental) 45.79
Revise subterm	ascending (cecum and terminal ileum) 45.72
Add subterm	<u>laparoscopic</u> 17.32
Add subterm	<u>open and other</u> 45.72
Revise subterm	cecum (and terminal ileum) 45.72
Add subterm	<u>laparoscopic</u> 17.32
Add subterm	<u>open and other</u> 45.72
Revise subterm	complete 45.8
Add subterm	<u>laparoscopic</u> 45.81
Add subterm	<u>open</u> 45.82
Add subterm	<u>other</u> 45.83
Add subterm	<u>unspecified</u> 45.83
Revise subterm	descending (sigmoid) 45.76
Add subterm	<u>laparoscopic</u> 17.36
Add subterm	<u>open and other</u> 45.76

Revise subterm	Hartmann <u>45.75</u>
Add subterm	<u>laparoscopic 17.35</u>
Add subterm	<u>open and other 45.75</u>
Revise subterm	hepatic flexure <u>45.73</u>
Add subterm	<u>laparoscopic 17.33</u>
Add subterm	<u>open and other 45.73</u>
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	left radical (hemicolon) <u>45.75</u>
Add subterm	<u>laparoscopic 17.35</u>
Add subterm	<u>open and other 45.75</u>
Revise subterm	multiple segmental <u>45.71</u>
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
Add subterm	<u>open and other 45.79</u>
Revise subterm	right radical (hemicolon) (ileocelectomy) <u>45.73</u>
Add subterm	<u>laparoscopic 17.33</u>
Add subterm	<u>open and other 45.73</u>
Revise subterm	segmental NEC <u>45.79</u>
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	multiple <u>45.71</u>
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
Add subterm	<u>open and other 45.79</u>
Revise subterm	sigmoid <u>45.76</u>
Add subterm	<u>laparoscopic 17.36</u>
Add subterm	<u>open and other 45.76</u>
Revise subterm	splenic flexure <u>45.75</u>
Add subterm	<u>laparoscopic 17.35</u>
Add subterm	<u>open and other 45.75</u>
Revise subterm	total <u>45.8</u>
Add subterm	<u>laparoscopic 45.81</u>
Add subterm	<u>open 45.82</u>
Add subterm	<u>other 45.83</u>
Add subterm	<u>unspecified 45.83</u>
Revise subterm	transverse <u>45.74</u>
Add subterm	<u>laparoscopic 17.34</u>
Add subterm	<u>open and other 45.74</u>
	endorectal (pull-through) (Soave) <u>48.41</u>
Revise subterm	combined abdominal, <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	hepatic
Revise subterm	flexure (colon) <u>45.73</u>
Add subterm	<u>laparoscopic 17.33</u>

Add subterm	<u>open and other 45.73</u>
Revise subterm	intestine (partial) NEC 45.79
Revise subterm	cecum (with terminal ileum) 45.72
Add subterm	<u>laparoscopic 17.32</u>
Add subterm	<u>open and other 45.72</u>
Revise subterm	hepatic flexure 45.73
Add subterm	<u>laparoscopic 17.33</u>
Add subterm	<u>open and other 45.73</u>
	ileum 45.62
Revise subterm	with cecum 45.72
Add subterm	<u>laparoscopic 17.32</u>
Add subterm	<u>open and other 45.72</u>
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	large (partial) (segmental) NEC 45.79
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	multiple segmental 45.71
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
Add subterm	<u>other 45.79</u>
Revise subterm	total 45.8
Add subterm	<u>laparoscopic 45.81</u>
Add subterm	<u>open 45.82</u>
Add subterm	<u>other 45.83</u>
Add subterm	<u>unspecified 45.83</u>
Add subterm	<u>unspecified 45.79</u>
Revise subterm	left hemicolon 45.75
Add subterm	<u>laparoscopic 17.35</u>
Add subterm	<u>open and other 45.75</u>
Revise subterm	multiple segmental (large intestine) 45.71
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
	<u>open and other 45.79</u>
Revise subterm	right hemicolon 45.73
Add subterm	<u>laparoscopic 17.33</u>
Add subterm	<u>open and other 45.73</u>
Revise subterm	segmental (large intestine) 45.79
Add subterm	<u>laparoscopic 17.39</u>
Revise subterm	multiple 45.71
Add subterm	<u>laparoscopic 17.31</u>
Add subterm	<u>open and other 45.71</u>
Add subterm	<u>open and other 45.79</u>
Revise subterm	sigmoid 45.76
Add subterm	<u>laparoscopic 17.36</u>

Add subterm	<u>open and other 45.76</u>
	total
Revise subterm	large intestine 45.8
Add subterm	<u>laparoscopic 45.81</u>
Add subterm	<u>open 45.82</u>
Add subterm	<u>other 45.83</u>
Add subterm	<u>unspecified 45.83</u>
	rectum (partial) NEC 48.69
Revise subterm	abdominoendorectal (combined), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
Revise subterm	abdominoperineal, <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	pull-through NEC 48.49
Add subterm	<u>laparoscopic 48.42</u>
Add subterm	<u>not otherwise specified 48.40</u>
Add subterm	<u>open 48.43</u>
	endorectal 48.41
Revise subterm	combined abdominal, <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	pull-through NEC 48.49
	endorectal 48.41
Add subterm	<u>laparoscopic 48.42</u>
Add subterm	<u>not otherwise specified 48.40</u>
Add subterm	<u>open 48.43</u>
	submucosal (Soave) 48.41
Revise subterm	combined abdominal, <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
Revise subterm	transverse colon 45.74
Add subterm	<u>laparoscopic 17.34</u>
Add subterm	<u>open and other 45.74</u>

Revise subterm	Robotic assisted surgery— see specific procedure (surgery) , by site
Add subterm	<u>endoscopic 17.44</u>
Add subterm	<u>laparoscopic 17.42</u>
Add subterm	<u>open 17.41</u>
Add subterm	<u>other and unspecified 17.49</u>
Add subterm	<u>percutaneous 17.43</u>
Add subterm	<u>thoracoscopic 17.45</u>
Revises term	Sauer-Bacon operation (abdominoperineal resection), <u>NOS 48.50</u>
Add subterm	<u>laparoscopic 48.51</u>
Add subterm	<u>open 48.52</u>
Add subterm	<u>other 48.59</u>
	Scan, scanning
	C.A.T. (computerized axial tomography) 88.38
Add subterm	<u>cardiac 87.41</u>
Add subterm	<u>coronary 87.41</u>
Revise term	Sigmoidectomy 45.76
Add subterm	<u>laparoscopic 17.36</u>
Add subterm	<u>open and other 45.76</u>
	Sigmoidosigmoidostomy 45.94
Revise subterm	proximal to distal segment 45.76
Add subterm	<u>laparoscopic 17.36</u>
Add subterm	<u>open and other 45.76</u>
Add term	<u>SKyphoplasty 81.66</u>
Add term	<u>Spectroscopy</u>
Add subterm	<u>intravascular 38.23</u>
Add subterm	<u>near infrared (NIR) 38.23</u>
Add term	<u>Spineoplasty 81.66</u>
	Stapling
Add subterm	<u>left atrial appendage 37.36</u>
Add term	<u>StaXx® FX Structural Kyphoplasty System 81.66</u>

	Study
Revise subterm	pulmonary function— <i>see categories 89.37-89.38</i>
Add subterm	<u>airway flow measurement, endoscopic 33.72</u>
Add subterm	<u>function - <i>see categories 89.37-89.38</i></u>
	Surgery
	computer assisted (CAS) 00.39
Add subterm	<u>with robotics – <i>see category 17.4</i></u>
Add subterm	<u>robotic assisted – <i>see category 17.4</i></u>
Add term	<u>Tactile Guidance System™ [TGS] – <i>see category 17.4</i></u>
	Therapy
Add subterm	<u>aqueous oxygen (AO) 00.49</u>
	continuous positive airway pressure (CPAP) 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - <i>see category 96.7</i></u>
Add subterm	<u>tracheostomy – <i>see category 96.7</i></u>
Add subterm	<u>Downstream® system 00.49</u>
	oxygen 93.96
Add subterm	<u>aqueous 00.49</u>
Add subterm	<u>SuperSaturated 00.49</u>
	respiratory NEC 93.99
	bi-level positive airway pressure [BiPAP] 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - <i>see category 96.7</i></u>
Add subterm	<u>tracheostomy – <i>see category 96.7</i></u>
	continuous positive airway pressure [CPAP] 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - <i>see category 96.7</i></u>
Add subterm	<u>tracheostomy – <i>see category 96.7</i></u>
	endotracheal respiratory assistance - <i>see category 96.7</i>
Delete subterm	intermittent mandatory ventilation [IMV]— <i>see category 96.7</i>
Revise subterm	other continuous <u>invasive (unspecified duration) 96.70</u>
Revise indent	for less than 96 consecutive hours 96.71
Revise indent	for 96 consecutive hours or more 96.72
Revise subterm	positive end expiratory pressure [PEEP] — <i>see category 96.7</i>
Add subterm	<u>invasive - <i>see category 96.7</i></u>
Add subterm	<u>non-invasive 93.90</u>

Delete subterm	<u>pressure support ventilation [PSV]—see category 96.7</u>
Add subterm	<u>SuperOxygenation (SSO₂) 00.49</u>
Add subterm	<u>SuperSaturated oxygen 00.49</u>
Add term	<u>Thoratec® implantable ventricular assist device (IVAD™) 37.66</u>
Add term	<u>Thoratec® ventricular assist device (VAD) system 37.66</u>
	Tomography - <i>see also</i> Radiography
	computerized axial NEC 88.38
Add subterm	<u>cardiac 87.41</u>
Add subterm	<u>coronary 87.41</u>
	Tracheostomy (emergency) (temporary) (for assistance in breathing) 31.1
Add subterm	<u>percutaneous dilatational</u>
Add subterm	<u>other permanent 31.29</u>
Add subterm	<u>temporary 31.1</u>
	Tracheotomy (emergency) (temporary) (for assistance in breathing) 31.1
Add subterm	<u>percutaneous dilatational</u>
Add subterm	<u>other permanent 31.29</u>
Add subterm	<u>temporary 31.1</u>
Revise term	TRAM (transverse rectus abdominis musculocutaneous) flap of breast 85.7
Add subterm	<u>free 85.73</u>
Add subterm	<u>pedicled 85.72</u>
Revise term	VAD (vascular access device)— <i>see</i> <u>Implant, heart assist system</u>
Add subterm	<u>vascular access device - see Vascular access device, totally implantable</u>
Add subterm	<u>ventricular assist device – see Implant, heart assist system</u>
Add term	<u>Vascular access device, totally implantable 86.07</u>

Add term	<u>Vectra® vascular access graft 86.07</u>
	Ventilation
	bi-level positive airway pressure [BiPAP] 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - see category 96.7</u>
Add subterm	<u>tracheostomy – see category 96.7</u>
	continuous positive airway pressure [CPAP] 93.90
Add subterm	<u>delivered by</u>
Add subterm	<u>endotracheal tube - see category 96.7</u>
Add subterm	<u>tracheostomy – see category 96.7</u>
Delete subterm	intermittent mandatory ventilation [IMV]—see category 96.7
Revise subterm	<u>mechanical, NOS 93.90</u>
Add subterm	<u>by endotracheal tube - see category 96.7</u>
Add subterm	<u>by tracheostomy - see category 96.7</u>
Delete subterm	intermittent mandatory ventilation [IMV]—see category 96.7
Add subterm	<u>invasive - see category 96.7</u>
Add subterm	<u>non-invasive [NIPPV] 93.90</u>
Revise subterm	other continuous <u>invasive</u> (unspecified duration) 96.70
Revise indent	for less than 96 consecutive hours 96.71
Revise indent	for 96 consecutive hours or more 96.72
Revise subterm	positive end expiratory pressure [PEEP]—see category 96.7
Add subterm	<u>invasive - see category 96.7</u>
Add subterm	<u>non-invasive 93.90</u>
Delete subterm	pressure support ventilation [PSV]—see category 96.7
Revise term	Vertebroplasty ₂ (percutaneous) 81.65
Add term	<u>Zeus® Robotic Surgical System – see category 17.4</u>