Tabular

00.3 Computer assisted surgery [CAS]
   Add inclusion term That without the use of robotic(s) technology
   Add exclusion term Excludes: robotic assisted procedures (17.41-17.49)

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)

00.66 Percutaneous transluminal coronary angioplasty [PTCA] or
   coronary atherectomy
   Add code also note Code also any: SuperSaturated oxygen therapy (00.49)
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)

03.53 Repair of vertebral fracture
Excludes: kyphoplasty percutaneous vertebral augmentation (81.66)
percutaneous 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 hemicolecetomy

New code  17.34 Laparoscopic resection of transverse colon

New code  17.35 Laparoscopic left hemicolecetomy

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 combined 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)

31.1 Temporary tracheostomy
Add inclusion term Temporary percutaneous dilatational tracheostomy [PDT]
Add code also note Code also any synchronous bronchoscopy, if performed (33.21 – 33.24, 33.27)

31.29 Other permanent tracheostomy
Add inclusion term Permanent percutaneous dilatational tracheostomy [PDT]
Add code also note: Code also any synchronous bronchoscopy, if performed (33.21 – 33.24, 33.27)

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

Revise subcategory title: 33.7 Other endoscopic insertion, replacement, and removal of therapeutic device or substances 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

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

37.33 Excision or destruction of other lesion or tissue of heart, open approach
Add exclusion term: 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

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.

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

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)

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)

Revise subcategory title

37.6 Implantation of heart and circulatory assist system(s)

New code

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

Includes: open chest (sternotomy) procedure for cannulae attachments
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 temporary non-implantable extracorporeal heart circulatory assist system
Add inclusion term Acute circulatory support device
Add inclusion term Short-term circulatory support (up to six hours)
Excludes:
Revise exclusion term implantation of total internal biventricular heart replacement heart system [artificial heart] (37.52)
Add exclusion term implant of external heart assist system (37.65)
Add exclusion term insertion of implantable extracorporeal heart assist system (37.66)
Add exclusion term removal of heart assist system (37.64)

Add note Note: Includes explantation of this device; do not code separately.

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 external heart assist system(s) or device(s)
Add inclusion term Explantation of external device(s) providing left and right ventricular support
Add inclusion term Explantation of single external device and cannulae
Add exclusion term Excludes: temporary non-implantable extracorporeal circulatory assist device (37.62)

Revise code title 37.65 Implant of single ventricular (extracorporeal) external heart assist system
Add inclusion term  
**Insertion of one device into one ventricle**

**Revise exclusion**  
Excludes: implantation of total internal biventricular heart replacement heart system (37.52)

**Add exclusion term**  
insertion of implantable heart assist system (37.66)

**Add exclusion term**  
insertion or implantation of two external VADs for simultaneous right and left heart support (37.60)

**Add exclusion term**  
that without sternotomy (37.62)

**Add note**  
Note: Insertion or implantation of one external VAD for left or right heart support.

37.66 Insertion of implantable heart assist system

**Revise exclusion**  
Excludes: implantation of total internal biventricular heart replacement heart system [artificial heart] (37.52)

**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)

38.99 Other puncture of vein  
Excludes: that for:

**Revise exclusion term**  
angiography of veins (88.60-88.69 88.68)

**Revise exclusion term**  
phlebography (88.60-88.69 88.68)

**Revise exclusion term**  
39 Other operations on vessels  
Excludes: those on coronary vessels (36.00 36.03-36.99)

**Add code also note**  
39.71 Endovascular implantation of graft in abdominal aorta  
Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)

**Add code also note**  
39.73 Endovascular implantation of graft in thoracic aorta  
Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)
Add exclusion note

39.97 Other perfusion
Excludes: SuperSaturated oxygen therapy (00.49)

44.32 Percutaneous [endoscopic] gastrojejunostomy
Delete inclusion term Endoscopic conversion of gastrostomy to jejunostomy
Add inclusion term Bypass: gastroduodenostomy
Add inclusion term PEG PEGJJ
Revise inclusion 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)
Revise exclusion term enterocolicectomy (17.39, 45.79)
Revise exclusion term ileocolicectomy (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)

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

45.71 Open and other multiple segmental resection of large intestine

45.72 Open and other cCecectomy

45.73 Open and other rRight hemicolecetomy

45.74 Open and other rResection of transverse colon

45.75 Open and other lLeft hemicolecetomy
Revise code title 45.76  Open and other sigmoidectomy

Revise code title 45.79  Other and unspecified partial excision of large intestine

New subcategory 45.8  Total intra-abdominal colectomy
                        Excision of cecum, colon, and sigmoid
                        Excludes:  coloproctectomy (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]
Add inclusion term  Endoscopic conversion of gastrostomy to jejunostomy
Add inclusion term  Percutaneous (endoscopic) feeding enterostomy
Add exclusion term Excludes:  percutaneous [endoscopic] gastrojejunostomy (bypass) (44.32)

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:  laparoscopic pull-through resection of rectum (48.42)
                        open pull-through resection of rectum (48.43)
                        pull-through resection of rectum, not otherwise specified (48.40)

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:

Revise exclusion term vaginal rectocele (70.50, 70.52, 70.53, 70.55)

Revise subcategory title 53.0 Other unilateral repair of inguinal hernia
Add exclusion term Excludes: laparoscopic unilateral repair of inguinal hernia (17.11-17.13)

Revise code title 53.01 Other and open repair of direct inguinal hernia
Add inclusion term Direct and indirect inguinal hernia

Revise code title 53.02 Other and open repair of indirect inguinal hernia

Revise code title 53.03 Other and open repair of direct inguinal hernia with graft or prosthesis

Revise code title 53.04 Other and open repair of indirect inguinal hernia with graft or prosthesis

Revise subcategory title 53.1 Other bilateral repair of inguinal hernia
Add exclusion term Excludes: laparoscopic bilateral repair of inguinal hernia (17.21 – 17.24)
Revise code title 53.11 Other and open bilateral repair of direct inguinal hernia

Revise code title 53.12 Other and open bilateral repair of indirect inguinal hernia

Revise code title 53.13 Other and open bilateral repair of inguinal hernia, one direct and one indirect

Revise code title 53.14 Other and open bilateral repair of direct inguinal hernia with graft or prosthesis

Revise code title 53.15 Other and open bilateral repair of indirect inguinal hernia with graft or prosthesis

Revise code title 53.16 Other and open bilateral repair of inguinal hernia, one direct and one indirect, with graft or prosthesis

Revise code title 53.41 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 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 Other incisional hernia repair with graft or prosthesis
Add exclusion term Excludes: laparoscopic incisional hernia repair with graft or prosthesis (53.62)

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 Other and open repair of other hernia of anterior abdominal wall with graft or prosthesis
Add exclusion term Excludes: other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis (53.63)
<table>
<thead>
<tr>
<th>Subcategory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>53.7</td>
<td>Repair of diaphragmatic hernia, abdominal approach</td>
</tr>
<tr>
<td>53.71</td>
<td>Laparoscopic repair of diaphragmatic hernia, abdominal approach</td>
</tr>
<tr>
<td>53.72</td>
<td>Other and open repair of diaphragmatic hernia, abdominal approach</td>
</tr>
<tr>
<td>53.75</td>
<td>Repair of diaphragmatic hernia, abdominal approach, not otherwise specified</td>
</tr>
<tr>
<td>53.83</td>
<td>Laparoscopic repair of diaphragmatic hernia, with thoracic approach</td>
</tr>
<tr>
<td>53.84</td>
<td>Other and open repair of diaphragmatic hernia, with thoracic approach</td>
</tr>
<tr>
<td>56.81</td>
<td>Lysis of intraluminal adhesions of ureter</td>
</tr>
<tr>
<td>70.50</td>
<td>Repair of cystocele and rectocele</td>
</tr>
<tr>
<td>70.51</td>
<td>Repair of cystocele</td>
</tr>
<tr>
<td>70.52</td>
<td>Repair of rectocele</td>
</tr>
<tr>
<td>75.6</td>
<td>Repair of other current obstetric laceration</td>
</tr>
<tr>
<td><strong>Add code also note</strong></td>
<td>Code also episiotomy, if performed (73.6)</td>
</tr>
</tbody>
</table>
75.69 Repair of other current obstetric laceration
Delete exclusion term
Excludes: repair of routine episiotomy (73.6)

77.8 Other partial ostectomy
Excludes: excision of bone ends associated with:
Revised exclusion term arthrodesis (81.00-81.239, 81.62-81.66)
Revised exclusion term arthroplasty (81.31-81.87, 81.40-81.59, 81.71-81.85)

Revised subcategory title 80.5 Excision, or destruction and other repair of intervertebral disc

Add code also note Code also any repair of the anulus fibrosus (80.53-80.54)

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)

Revised code title 81.65 Percutaneous vertebroplasty
Add exclusion term Excludes: percutaneous vertebral augmentation (81.66)
Revise code title  81.66  Kyphoplasty  Percutaneous vertebral augmentation

Revise inclusion term  Insertion of inflatable balloon, bone tamp, or other device 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

Add inclusion term  Arcuplasty
Add inclusion term  Kyphoplasty
Add inclusion term  SKyphoplasty
Add inclusion term  Spineoplasty

Revise exclusion term  Excludes: percutaneous vertebroplasty (81.65)

Revise exclusion term  84.55 Insertion of bone void filler
Revise exclusion term  Excludes: that with kyphoplasty percutaneous vertebral augmentation (81.66)
Revise exclusion term  that with percutaneous vertebroplasty (81.65)

Revise title  84.56 Insertion or replacement of (cement) spacer
Revise inclusion term  Insertion or replacement 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)
<table>
<thead>
<tr>
<th>New code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>85.74</td>
<td>Deep inferior epigastric artery perforator (DIEP) flap, free</td>
</tr>
<tr>
<td>85.75</td>
<td>Superficial inferior epigastric artery (SIEA) flap, free</td>
</tr>
<tr>
<td>85.76</td>
<td>Gluteal artery perforator (GAP) flap, free</td>
</tr>
<tr>
<td>85.79</td>
<td>Other total reconstruction of breast</td>
</tr>
<tr>
<td></td>
<td>Excludes: deep inferior epigastric artery perforator (DIEP) flap, free (85.74)</td>
</tr>
<tr>
<td></td>
<td>gluteal artery perforator (GAP) flap, free (85.76)</td>
</tr>
<tr>
<td></td>
<td>latissimus dorsi myocutaneous flap (85.71)</td>
</tr>
<tr>
<td></td>
<td>perforator flap, free (85.70)</td>
</tr>
<tr>
<td></td>
<td>superficial inferior epigastric artery (SIEA) flap, free (85.75)</td>
</tr>
<tr>
<td></td>
<td>total reconstruction of breast, not otherwise specified (85.70)</td>
</tr>
<tr>
<td></td>
<td>transverse rectus abdominis myocutaneous (TRAM) flap, free (85.73)</td>
</tr>
<tr>
<td></td>
<td>transverse rectus abdominis myocutaneous (TRAM) flap, pedicled (85.72)</td>
</tr>
</tbody>
</table>

85.8  Other repair and plastic operations on breast
Excludes: that for:

Revise exclusion term reconstruction (85.70-85.76, 85.79)

86.09  Other incision of skin and subcutaneous tissue
Add exclusion term Excludes: that for drainage (86.04)

87.41  Computerized axial tomography of thorax
Add inclusion term C.A.T. scan of heart

87.42  Other tomography of thorax
Add exclusion term Excludes: C.A.T. scan of heart (87.41)

88.38  Other computerized axial tomography
Excludes: C.A.T. scan of:
Add exclusion term heart (87.41)
89.37 Vital capacity determination
Add exclusion term Excludes: endoscopic pulmonary airway flow measurement (33.72)

89.38 Other nonoperative respiratory measurements
Add exclusion term Excludes: endoscopic pulmonary airway flow measurement (33.72)

89.61 Systemic arterial pressure monitoring
Add exclusion term Excludes: intra-aneurysm sac pressure monitoring (intraoperative) (00.58)
Add exclusion term intravascular pressure measurement of intrathoracic arteries (00.67)
Add exclusion term intravascular pressure measurement of peripheral arteries (00.68)

89.62 Central venous pressure monitoring
Add exclusion term Excludes: intravascular pressure measurement, other specified and unspecified vessels (00.69)

89.69 Monitoring of coronary blood flow
Add exclusion term Excludes: intravascular pressure measurement of coronary arteries (00.59)

91.6 Microscopic examination of specimen from skin and other integument
Revise exclusion term Excludes: mucous membrane – code to organ site that of operative wound
Revise exclusion term that of operative wound (94.70 91.71-91.79)

93.9 Respiratory therapy
Revise exclusion term Excludes: other continuous invasive (through endotracheal tube or tracheostomy) mechanical ventilation (96.70-96.72)

Revise code title Continuous positive airway pressure [CPAP] Non-invasive mechanical ventilation
Add inclusion term BiPAP without (delivery through) endotracheal tube
Add inclusion term CPAP without (delivery through) endotracheal tube or tracheostomy
Add inclusion term Mechanical ventilation NOS
Add inclusion term Non-invasive PPV
Add inclusion term NPPV
Add inclusion term That delivered by non-invasive interface:
  face mask
Add inclusion term nasal mask
Add inclusion term nasal pillow
Add inclusion term oral mouthpiece
Add inclusion term oronasal mask

Add exclusion term
Excludes: invasive (through endotracheal tube or tracheostomy) continuous mechanical ventilation (96.70-96.72)

Add note
Note: Patients admitted on non-invasive mechanical ventilation that subsequently require invasive mechanical ventilation; code both types of mechanical ventilation.

Add exclusion term
Excludes: SuperSaturated oxygen therapy (00.49)

Revise subcategory
96.7 Other continuous invasive mechanical ventilation title
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 BiPAP delivered through endotracheal tube or tracheostomy (invasive interface)
Add inclusion term CPAP delivered through endotracheal tube or tracheostomy (invasive interface)
Add inclusion term Invasive positive pressure ventilation [IPPV]
Add inclusion term Mechanical ventilation through invasive interface
Revise exclusion term
Excludes: non-invasive bi-level positive airway pressure [BiPAP] (93.90)
Revise exclusion term non-invasive continuous positive airway pressure [CPAP] (93.90)

Revise code title
96.70 Continuous invasive mechanical ventilation of unspecified duration
Revise inclusion term Invasive mechanical ventilation NOS
Revise code title 96.71 Continuous invasive mechanical ventilation for less than 96 consecutive hours

Revise code title 96.72 Continuous invasive mechanical ventilation for 96 consecutive hours or more

97.14 Replacement of other device for musculoskeletal immobilization
Add inclusion term Splinting
Add inclusion term Strapping

Add exclusion term Excludes: SuperSaturated oxygen therapy (00.49)

99.10 Injection or infusion of thrombolytic agent
Add exclusion term Excludes: SuperSaturated oxygen therapy (00.49)

99.2 Injection or infusion of other therapeutic or prophylactic substance
Add exclusion term Excludes: SuperSaturated oxygen therapy (00.49)
Add term  AbioCor® total replacement heart 37.52

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
Revise subterm  aorta 38.44
Add subterm  endovascular approach 39.71
Add subterm  open approach 38.44
Add subterm  Zenith® Renu™ AAA graft 39.71

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

Arthrodesis (compression) (extra-articular) (intra-articular) (with
bone graft) (with fixation device) 81.20
Revise subterm  plantar pantalar 81.11

Artificial
Add subterm  heart 37.52
Add subterm  AbioCor® 37.52
Add subterm  CardioWest™ (TAH-t) 37.52

BiPAP 93.90
Add subterm  delivered by
Add subterm  endotracheal tube - see category 96.7
Add subterm  tracheostomy – see category 96.7
Bypass
gastroduodenostomy (Jaboulay's) 44.39
Add subterm percutaneous [endoscopic] 44.32

Add term CardioWest™ Total Temporary Artificial Heart
(TAH-t) 37.52

Revise term Cecectomy (with resection of terminal ileum) 45.72
Add subterm laparoscopic 17.32
Add subterm open and other 45.72

Add term CentriMag® acute circulatory support device 37.62

Change – see also Replacement
Add subterm splint 97.14

Clipping
Add subterm left atrial appendage 37.36

Closure - see also Repair
Add subterm anular disc 80.54
Add subterm with graft or prosthesis 80.53
Add subterm anulus fibrosus 80.54
Add subterm with graft or prosthesis 80.53

Revise term Colectomy (partial) (segmental) (subtotal) 45.79
Revise subterm cecum (with terminal ileum) 45.72
Add subterm laparoscopic 17.32
Add subterm open and other 45.72
Add subterm laparoscopic 17.39
Revise subterm left (Hartmann) (lower) (radical) 45.75
Add subterm laparoscopic 17.35
Add subterm open and other 45.75
Revise subterm multiple segmental 45.74
Add subterm laparoscopic 17.31
Add subterm open and other 45.71
Add subterm open and other 45.79
Revise subterm right (radical) 45.73
Add subterm laparoscopic 17.33
Add subterm open and other 45.73
Revise subterm sigmoid 45.76
Add subterm laparoscopic 17.36
Add subterm open and other 45.76
Revise subterm terminal ileum with cecum 45.72
Add subterm laparoscopic 17.32
Add subterm open and other 45.72
Revise subterm total 45.8
Add subterm laparoscopic 45.81
Add subterm open 45.82
Add subterm other 45.83
Add subterm unspecified 45.83
Revise subterm transverse 45.74
Add subterm laparoscopic 17.34
Add subterm open and other 45.74

Revise term Continuous positive airway pressure (CPAP) (non-invasive) 93.90
Add subterm delivered by
Add subterm endotracheal tube — see category 96.7
Add subterm tracheostomy — see category 96.7
Conversion
Revise subterm gastrostomy to jejunostomy (endoscopic) 44.32
Add subterm for feeding tube placement 46.32

CPAP (continuous positive airway pressure) 93.90
Add subterm delivered by
Add subterm endotracheal tube — see category 96.7
Add subterm tracheostomy — see category 96.7

Add term da Vinci® (S HD) Surgical System — see category 17.4

Debridement
Add subterm tendon 83.39

Destruction
Add subterm LAA 37.36
Add subterm left atrial appendage 37.36
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 45.74
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

Gastrojejunoscopy (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)
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<td>pedicled</td>
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<td>augmentation</td>
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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-aneursym 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-aneursym 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
Revise subterm proctectomy (complete), NOS 48.50
Add subterm laparoscopic 48.51
Add subterm open 48.52
Add subterm other 48.59

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

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

Revise subterm complete (Miles) (Rankin), NOS 48.50
Add subterm laparoscopic 48.51
Add subterm open 48.52
Add subterm other 48.59
Revise subterm pull-through 48.49
Add subterm laparoscopic 48.42
Add subterm not otherwise specified 48.40
Add subterm open 48.43
Add subterm other 48.49

Oversewing
Add subterm left atrial appendage (LAA) 37.36

Oxygenation 93.96
Add subterm infusion therapy, Super 00.49

Oxygen therapy (catalytic) (pump) 93.96
Add subterm SuperSaturated 00.49

Add term PDT (percutaneous dilatational tracheostomy) – see Tracheostomy
Add term PEGJJ (percutaneous [endoscopic] gastrojejunostomy) 44.32
Delete term Pressure support
Delete subterm ventilation [PSV] — see category 96.7

Procpectomy (partial) - see also Resection, rectum 48.69
Revise subterm abdominoperineal, NOS 48.50
Add subterm laparoscopic 48.51
Add subterm open 48.52
Add subterm other 48.59
Rankin operation

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

Reconstruction (plastic) - see also Construction and Repair, by site

Revise subterm breast, total, NOS 85.70
Add subterm deep inferior epigastric artery perforator (DIEP) 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
Add subterm transverse rectus abdominis musculocutaneous (TRAM) flap, free 85.73
Add subterm transverse rectus abdominis myocutaneous (TRAM) flap, pedicled 85.72

Revise subterm umbilicus §3.49
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

Removal - see also Excision

Add subterm artificial heart
Add subterm internal biventricular replacement system 37.55
Add subterm heart replacement system
Add subterm internal biventricular 37.55
Add subterm internal biventricular heart replacement system 37.55

Repair

Add subterm anular disc 80.54
Add subterm with graft or prosthesis 80.53
Add subterm anulus fibrosus 80.54
Add subterm with graft or prosthesis 80.53

heart 37.49
Revise subterm total internal biventricular replacement system 37.52

hernia NEC 53.9
anterior abdominal wall NEC 53.59

Revise subterm with prosthesis or graft 53.69
Add subterm laparoscopic 53.63
Add subterm other and open 53.69
diaphragmatic

Revise subterm abdominal approach 53.7
Add subterm laparoscopic 53.71
Add subterm other and open 53.72
Add subterm unspecified 53.75
thoracic, thoracoabdominal approach 53.80
Add subterm laparoscopic 53.83
Add subterm other and open 53.84
esophageal hiatus

Revise subterm abdominal approach 53.7
Add subterm laparoscopic 53.71
Add subterm other and open 53.72
Add subterm unspecified 53.75
incisional 53.51
Add subterm laparoscopic with prosthesis or graft 53.62
Revise subterm other open with prosthesis or graft 53.61
inguinal (unilateral) 53.00
with prosthesis or graft 53.05
bilateral 53.10
with prosthesis or graft 53.17
Add subterm laparoscopic 17.24
Revise subterm direct 53.44
Add subterm laparoscopic with graft or prosthesis 17.21
Add subterm other and open 53.11
Revise indent with prosthesis or graft 53.14
Revise subterm direct and indirect 53.13
Add subterm laparoscopic with graft or prosthesis 17.23
Add subterm other and open 53.13
Revise indent with prosthesis or graft 53.16
Revise subterm indirect 53.42
Add subterm laparoscopic with graft or prosthesis 17.22
Add subterm other and open 53.12
Revise indent with prosthesis or graft 53.15
Revise subterm direct (unilateral) 53.04
Revise subterm and indirect (unilateral) 53.04
Add subterm laparoscopic with graft or prosthesis 17.11
Add subterm other and open 53.01
Revise indent with prosthesis or graft 53.03
Delete subterm bilateral 53.13
Delete subterm with prosthesis or graft 53.16
Delete subterm bilateral 53.14
Delete subterm with prosthesis or graft 53.14
Add subterm laparoscopic with graft or prosthesis 17.11
Add subterm other and open 53.01
Revise indent with prosthesis or graft 53.03

Revise subterm indirect (unilateral) §3.02
Add subterm laparoscopic with graft or prosthesis 17.12
Add subterm other and open 53.02
Revise indent with prosthesis or graft 53.04
Delete subterm and direct (unilateral) §3.04
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 laparoscopic with graft or prosthesis, NOS 17.13

Revise subterm paraesophageal §3.7
Add subterm laparoscopic 53.71
Add subterm other and open 53.72
Add subterm unspecified 53.75

Revise subterm parahiatal §3.7
Add subterm laparoscopic 53.71
Add subterm other and open 53.72
Add subterm unspecified 53.75

Revise subterm paraumbilical §3.49
Add subterm laparoscopic 53.43
Add subterm with graft or prosthesis 53.42
Revise subterm other and open with graft or prosthesis 53.41
Add subterm other open 53.49
Revise subterm umbilical §3.49
Add subterm laparoscopic 53.43
Add subterm with graft or prosthesis 53.42
Revise subterm other and open with graft or prosthesis 53.41
Add subterm other open 53.49

ventral 53.59

Add subterm with prosthesis or graft
Add subterm laparoscopic 53.63
Add subterm other and open 53.69
incisional 53.51
Revise subterm other open with prosthesis or graft 53.61

Revise subterm omphalocele §3.49
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**Replacement**

- heart
  - artificial
  - total internal biventricular replacement system 37.52

| Add subterm                     | spacer (cement) (joint) (methylmethacrylate) 84.56 |
| Add subterm                     | splint 97.14 |

**Resection - see also Excision, by site**

- abdominoendorectal (combined), NOS 48.50
  - laparoscopic 48.51
  - open 48.52
  - other 48.59

- abdominoperineal (rectum), NOS 48.50
  - pull-through (Altemeier) (Swenson) NEC 48.49
    - laparoscopic 48.42
    - not otherwise specified 48.40
    - open 48.43

- cecum (and terminal ileum) 45.72
  - laparoscopic 17.32
  - open and other 45.72

- colon (partial) (segmental) 45.79
  - ascending (cecum and terminal ileum) 45.72
    - laparoscopic 17.32
    - open and other 45.72

- cecum (and terminal ileum) 45.72
  - laparoscopic 17.32
  - open and other 45.72

- complete 45.8
  - laparoscopic 45.81
  - open 45.82
  - other 45.83
  - unspecified 45.83

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

Revise subterm intestine (partial) NEC 45.79
Revise subterm cecum (with terminal ileum) 45.72
Add subterm laparoscopic 17.32
Add subterm open and other 45.72
Revise subterm hepatic flexure 45.73
Add subterm laparoscopic 17.33
Add subterm open and other 45.73
ileum 45.62
Revise subterm with cecum 45.72
Add subterm laparoscopic 17.32
Add subterm open and other 45.72
Add subterm laparoscopic 17.39
Add subterm open and other 45.72
Add subterm unspecified 45.79
Revise subterm large (partial) (segmental) NEC 45.79
Add subterm laparoscopic 17.39
Revise subterm multiple segmental 45.74
Add subterm laparoscopic 17.31
Add subterm open and other 45.71
Add subterm other 45.79
Revise subterm total 45.8
Add subterm laparoscopic 45.81
Add subterm open 45.82
Add subterm other 45.83
Add subterm unspecified 45.83
Add subterm unspecified 45.79
Revise subterm left hemicolon 45.75
Add subterm laparoscopic 17.35
Add subterm open and other 45.75
Revise subterm multiple segmental (large intestine) 45.71
Add subterm laparoscopic 17.31
Add subterm open and other 45.71
Add subterm open and other 45.79

Add subterm open and other 45.79
Revise subterm right hemicolon 45.73
Add subterm laparoscopic 17.33
Add subterm open and other 45.73
Revise subterm segmental (large intestine) 45.79
Add subterm laparoscopic 17.39
Revise subterm multiple 45.74
Add subterm laparoscopic 17.31
Add subterm open and other 45.71
Add subterm open and other 45.79

Revise subterm sigmoid 45.76
Add subterm laparoscopic 17.36
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<td>abdominoperineal, NOS [48.50]</td>
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<tr>
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<td>not otherwise specified [48.40]</td>
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<td>open [48.43]</td>
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<tr>
<td>[48.41] endorectal</td>
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<td>laparoscopic [48.51]</td>
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<td>Robotic assisted surgery—see specific procedure (surgery), by site</td>
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<th>Revises term</th>
<th>Sauer-Bacon operation (abdominoperineal resection), NOS 48.50</th>
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<tr>
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<td>open 48.52</td>
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<tr>
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<td>other 48.59</td>
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<tr>
<th>Scan, scanning</th>
<th>C.A.T. (computerized axial tomography) 88.38</th>
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<td>Add subterm</td>
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<td>coronary 87.41</td>
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<th>Sigmoidosigmoidostomy 45.94</th>
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<td>near infrared (NIR) 38.23</td>
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<td>Stapling</td>
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| Add term                  | StaXx® FX Structural Kyphoplasty System 81.66                                 |
Study

Revise subterm pulmonary function — see categories 89.37-89.38
Add subterm airway flow measurement, endoscopic 33.72
Add subterm function - see categories 89.37-89.38

Surgery

computer assisted (CAS) 00.39
Add subterm with robotics – see category 17.4
Add subterm robotic assisted – see category 17.4

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

Therapy

Add subterm aqueous oxygen (AO) 00.49
continuous positive airway pressure (CPAP) 93.90
Add subterm delivered by
Add subterm endotracheal tube - see category 96.7
Add subterm tracheostomy – see category 96.7

Add subterm Downstream® system 00.49
oxygen 93.96
Add subterm aqueous 00.49
Add subterm SuperSaturated 00.49
respiratory NEC 93.99
bi-level positive airway pressure [BiPAP] 93.90
Add subterm delivered by
Add subterm endotracheal tube - see category 96.7
Add subterm tracheostomy – see category 96.7

Add subterm continuous positive airway pressure [CPAP] 93.90
Add subterm delivered by
Add subterm endotracheal tube - see category 96.7
Add subterm tracheostomy – see category 96.7

Delete subterm intermittent mandatory ventilation [IMV] — see category 96.7
Revise subterm other continuous invasive (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 invasive - see category 96.7
Add subterm non-invasive 93.90
Delete subterm  pressure support ventilation [PSV]—see category 96.7

Add subterm  SuperOxygenation (SSO₂) 00.49

Add subterm  SuperSaturated oxygen 00.49

Add term  Thoratec® implantable ventricular assist device (IVAD™) 37.66

Add term  Thoratec® ventricular assist device (VAD) system 37.66

Tomography - see also Radiography
computerized axial NEC 88.38
Add subterm  cardiac 87.41
Add subterm  coronary 87.41

Tracheostomy (emergency) (temporary) (for assistance in breathing) 31.1
Add subterm  percutaneous dilatational
Add subterm  other permanent 31.29
Add subterm  temporary 31.1

Tracheotomy (emergency) (temporary) (for assistance in breathing) 31.1
Add subterm  percutaneous dilatational
Add subterm  other permanent 31.29
Add subterm  temporary 31.1

Revise term  TRAM (transverse rectus abdominis musculocutaneous) flap of breast 85.7
Add subterm  free 85.73
Add subterm  pedicled 85.72

Revise term  VAD (vascular access device) – see Implant, heart assist system
Add subterm  vascular access device - see Vascular access device,
totally implantable
Add subterm  ventricular assist device – see Implant, heart assist system

Add term  Vascular access device, totally implantable 86.07
Add term  Vectra® vascular access graft 86.07

Ventilation
  bi-level positive airway pressure [BiPAP] 93.90
  delivered by
  endotracheal tube - see category 96.7
  tracheostomy – see category 96.7
  continuous positive airway pressure [CPAP] 93.90
  delivered by
  endotracheal tube - see category 96.7
  tracheostomy – see category 96.7
Delete subterm  intermittent mandatory ventilation [IMV]—see category 96.7
Revise subterm  mechanical, NOS 93.90
  delivered by
  endotracheal tube - see category 96.7
  tracheostomy – see category 96.7
Delete subterm  intermittent mandatory ventilation [IMV]—see category 96.7
Add subterm  invasive - see category 96.7
Add subterm  non-invasive [NIPPV] 93.90
Revise subterm  other continuous invasive (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  invasive - see category 96.7
Add subterm  non-invasive 93.90
Delete subterm  pressure support ventilation [PSV]—see category 96.7

Revise term  Vertebroplasty, (percutaneous) 81.65

Add term  Zeus® Robotic Surgical System – see category 17.4