PREFACE

This sixth edition of the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM) is being published by the United States Government in recognition of its responsibility to promulgate this classification throughout the United States for morbidity coding. The International Classification of Diseases, 9th Revision, published by the World Health Organization (WHO) is the foundation of the ICD-9-CM and continues to be the classification employed in cause-of-death coding in the United States. The ICD-9-CM is completely comparable with the ICD-9. The WHO Collaborating Center for Classification of Diseases in North America serves as liaison between the international obligations for comparable classifications and the national health data needs of the United States.

The ICD-9-CM is recommended for use in all clinical settings but is required for reporting diagnoses and diseases to all U.S. Public Health Service and the Centers for Medicare & Medicaid Services (formerly the Health Care Financing Administration) programs. Guidance in the use of this classification can be found in the section "Guidance in the Use of ICD-9-CM."

ICD-9-CM extensions, interpretations, modifications, addenda, or errata other than those approved by the U.S. Public Health Service and the Centers for Medicare & Medicaid Services are not to be considered official and should not be utilized. Continuous maintenance of the ICD-9-CM is the responsibility of the Federal Government. However, because the ICD-9-CM represents the best in contemporary thinking of clinicians, nosologists, epidemiologists, and statisticians from both public and private sectors, no future modifications will be considered without extensive advice from the appropriate representatives of all major users.

All official authorized addenda through October 1, 2009, have been included in this sixth edition.
ACKNOWLEDGMENTS

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INTRODUCTION


ICD-9-CM is a clinical modification of the World Health Organization’s International Classification of Diseases, 9th Revision (ICD-9). The term “clinical” is used to emphasize the modification’s intent: to serve as a useful tool in the area of classification of morbidity data for indexing of medical records, medical care review, and ambulatory and other medical care programs, as well as for basic health statistics. To describe the clinical picture of the patient, the codes must be more precise than those needed only for statistical groupings and trend analysis.

THE ICD-9-CM COORDINATION AND MAINTENANCE COMMITTEE

Annual modifications are made to the ICD-9-CM through the ICD-9-CM Coordination and Maintenance Committee (C&M). The Committee is made up of representatives from two Federal Government agencies, the National Center for Health Statistics and the Centers for Medicare & Medicaid Services. The Committee holds meetings twice a year which are open to the public. Modification proposals submitted to the Committee for consideration are presented at the meetings for public discussion. Those modification proposals which are approved are incorporated into the official government version of the ICD-9-CM and become effective for use the October 1 of the year following their presentation. This CD-ROM contains the modifications approved from the March 2008 - March 2009 C&M cycle.

This CD-ROM is the only official federal government version of the ICD-9-CM. It may be purchased through the Government Printing Office.

CONVENTIONS USED IN THE TABULAR LIST

The ICD-9-CM Tabular List for both the Disease and Procedure Classification makes use of certain abbreviations, punctuation, and other conventions which need to be clearly understood.

Abbreviations

NEC Not elsewhere classifiable. The category number for the term including NEC is to be used only when the coder lacks the information necessary to code the term to a more specific category.

NOS Not otherwise specified. This abbreviation is the equivalent of “unspecified.”

Punctuation

[ ] Brackets are used to enclose synonyms, alternative wordings, or explanatory phrases.
Parentheses are used to enclose supplementary words which may be present or absent in the statement of a disease or procedure without affecting the code number to which it is assigned.

Colons are used in the Tabular List after an incomplete term which needs one or more of the modifiers which follow in order to make it assignable to a given category.

OTHER CONVENTIONS


Instructional Notations
Includes:
This note appears immediately under a three-digit code title to further define, or give example of, the contents of the category.

Excludes:
Terms following the word "excludes" are to be coded elsewhere. The term excludes means "DO NOT CODE HERE".

Use additional code
This instruction is placed in the Tabular List in those categories where the user will need to add further information (by using an additional code) to give a more complete picture of the diagnosis or procedure.

GUIDANCE IN THE USE OF ICD-9-CM

To code accurately, it is necessary to have a working knowledge of medical terminology and to understand the characteristics, terminology, and conventions of the ICD-9-CM. Transforming verbal descriptions of diseases, injuries, conditions, and procedures into numerical designations (coding) is a complex activity and should not be undertaken without proper training.

Originally coding was accomplished to provide access to medical records by diagnoses and operations through retrieval for medical research, education, and administration. Medical codes today are utilized to facilitate payment of health services, to evaluate utilization patterns, and to study the appropriateness of health care costs. Coding provides the bases for epidemiological studies and research into the quality of health care.

Coding must be performed correctly and consistently to produce meaningful statistics to aid in the planning for the health needs of the Nation.

QUESTIONS

Questions regarding the use and interpretation of the International Classification of Diseases, 9th Revision, Clinical Modification can be directed to any of the organizations listed below.

Central Office on ICD-9-CM
American Hospital Association
1 North Franklin Chicago, Illinois 60606

National Center for Health Statistics
Centers for Disease Control and Prevention
Department of Health and Human Services
3311 Toledo Road
Hyattsville, Maryland 20782

Centers for Medicare & Medicaid Services
Division of Prospective Payment System
Office of Hospital Policy
7500 Security Blvd., C5-06-27
Baltimore, Maryland 21244-1850
# TABLE OF CONTENTS

## CLASSIFICATION OF PROCEDURES

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Code</th>
<th>Procedures and interventions, not elsewhere classified</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>00</td>
<td>Procedures and interventions, not elsewhere classified</td>
<td>11</td>
</tr>
<tr>
<td>1</td>
<td>01-05</td>
<td>Operations on the nervous system</td>
<td>22</td>
</tr>
<tr>
<td>2</td>
<td>06-07</td>
<td>Operations on the endocrine system</td>
<td>32</td>
</tr>
<tr>
<td>3</td>
<td>08-16</td>
<td>Operations on the eye</td>
<td>37</td>
</tr>
<tr>
<td>3A</td>
<td>17</td>
<td>Other miscellaneous diagnostic and therapeutic procedures</td>
<td>51</td>
</tr>
<tr>
<td>4</td>
<td>18-20</td>
<td>Operations on the ear</td>
<td>54</td>
</tr>
<tr>
<td>5</td>
<td>21-29</td>
<td>Operations on the nose, mouth, and pharynx</td>
<td>60</td>
</tr>
<tr>
<td>6</td>
<td>30-34</td>
<td>Operations on the respiratory system</td>
<td>72</td>
</tr>
<tr>
<td>7</td>
<td>35-39</td>
<td>Operations on the cardiovascular system</td>
<td>82</td>
</tr>
<tr>
<td>8</td>
<td>40-41</td>
<td>Operations on the hemic and lymphatic system</td>
<td>113</td>
</tr>
<tr>
<td>9</td>
<td>42-54</td>
<td>Operations on the digestive system</td>
<td>116</td>
</tr>
<tr>
<td>10</td>
<td>55-59</td>
<td>Operations on the urinary system</td>
<td>153</td>
</tr>
<tr>
<td>11</td>
<td>60-64</td>
<td>Operations on the male genital organs</td>
<td>166</td>
</tr>
<tr>
<td>12</td>
<td>65-71</td>
<td>Operations on the female genital organs</td>
<td>173</td>
</tr>
<tr>
<td>13</td>
<td>72-75</td>
<td>Obstetrical procedures</td>
<td>188</td>
</tr>
<tr>
<td>14</td>
<td>76-84</td>
<td>Operations on the musculoskeletal system</td>
<td>193</td>
</tr>
<tr>
<td>15</td>
<td>85-86</td>
<td>Operations on the integumentary system</td>
<td>223</td>
</tr>
<tr>
<td>16</td>
<td>87-99</td>
<td>Miscellaneous diagnostic and therapeutic procedures</td>
<td>233</td>
</tr>
</tbody>
</table>

# INDEX TO PROCEDURES

273
CLASSIFICATION OF PROCEDURES
00 Procedures and interventions, Not Elsewhere Classified

00.0 Therapeutic ultrasound

Excludes: diagnostic ultrasound (non-invasive) (88.71-88.79)
intracardiac echocardiography [ICE] (heart chamber(s)) (37.28)
intravascular imaging (adjunctive) (00.21-00.29)

00.01 Therapeutic ultrasound of vessels of head and neck

Anti-restenotic ultrasound
Intravascular non-ablative ultrasound

Excludes: diagnostic ultrasound of:
  eye (95.13)
  head and neck (88.71)
  that of inner ear (20.79)
ultrasonic:
  angioplasty of non-coronary vessel (39.50)
  embolectomy (38.01, 38.02)
  endarterectomy (38.11, 38.12)
  thrombectomy (38.01, 38.02)

00.02 Therapeutic ultrasound of heart

Anti-restenotic ultrasound
Intravascular non-ablative ultrasound

Excludes: diagnostic ultrasound of heart (88.72)
ultrasonic ablation of heart lesion (37.34)
ultrasonic angioplasty of coronary vessels (00.66, 36.09)

00.03 Therapeutic ultrasound of peripheral vascular vessels

Anti-restenotic ultrasound
Intravascular non-ablative ultrasound

Excludes: diagnostic ultrasound of peripheral vascular system (88.77)
ultrasonic angioplasty of:
  non-coronary vessel (39.50)

00.09 Other therapeutic ultrasound

Excludes: ultrasonic:
  fragmentation of urinary stones (59.95)
  percutaneous nephrostomy with fragmentation (55.04)
  physical therapy (93.35)
  transurethral guided laser induced prostatectomy (TULIP) (60.21)

00.1 Pharmaceuticales

00.10 Implantation of chemotherapeutic agent

Brain wafer chemotherapy
Interstitial/ intracavitary

Excludes: injection or infusion of cancer chemotherapeutic substance (99.25)

00.11 Infusion of drotrecogin alfa (activated)

Infusion of recombinant protein
00.12 Administration of inhaled nitric oxide  
Nitric oxide therapy

00.13 Injection or infusion of nesiritide  
Human B-type natriuretic peptide (hBNP)

00.14 Injection or infusion of oxazolidinone class of antibiotics  
Linezolid injection

00.15 High-dose infusion interleukin-2 [IL-2]  
Infusion (IV bolus, CIV) interleukin  
Injection of aldesleukin

Excludes: low-dose infusion interleukin-2 (99.28)

00.16 Pressurized treatment of venous bypass graft [conduit] with pharmaceutical substance  
Ex-vivo treatment of vessel  
Hyperbaric pressurized graft [conduit]

00.17 Infusion of vasopressor agent

00.18 Infusion of immunosuppressive antibody therapy  
Includes: during induction phase of solid organ transplantation  
monoclonal antibody therapy  
polyclonal antibody therapy

00.19 Disruption of blood brain barrier via infusion [BBBD]  
Infusion of substance to disrupt blood brain barrier  
Code also chemotherapy (99.25)

Excludes: other perfusion (39.97)

00.2 Intravascular imaging of blood vessels  
Endovascular ultrasonography  
Intravascular ultrasound (IVUS)  
Intravascular [ultrasound] imaging of blood vessels  
Virtual histology intravascular ultrasound [VH-IVUS]

Note: real-time imaging of lumen of blood vessel(s) using sound waves  
Code also any synchronous diagnostic or therapeutic procedures

Excludes: therapeutic ultrasound (00.01-00.09)  
adjunct vascular system procedures, number of vessels treated (00.40-00.43)  
diagnostic procedures on blood vessels (38.21–38.29)  
diagnostic ultrasound of peripheral vascular system (88.77)  
magnetic resonance imaging (MRI) (88.91-88.97)  
intravascular imaging of vessel(s) by OCT (38.24-38.25)

00.21 Intravascular imaging of extracranial cerebral vessels  
Common carotid vessels and branches  
Intravascular ultrasound (IVUS), extracranial cerebral vessels

Excludes: diagnostic ultrasound (non-invasive) of head and neck (88.71)

00.22 Intravascular imaging of intrathoracic vessels  
Aorta and aortic arch  
Intravascular ultrasound (IVUS), intrathoracic vessels  
Vena cava (superior) (inferior)

Excludes: diagnostic ultrasound (non-invasive) of other sites of thorax (88.73)
00.23 Intravascular imaging of peripheral vessels
   Imaging of:
   vessels of arm(s)
   vessels of leg(s)
   Intravascular ultrasound (IVUS), peripheral vessels

   Excludes: diagnostic ultrasound (non-invasive) of peripheral vascular system (88.77)

00.24 Intravascular imaging of coronary vessels
   Intravascular ultrasound (IVUS), coronary vessels

   Excludes: diagnostic ultrasound (non-invasive) of heart (88.72)
   intracardiac echocardiography [ICE] (ultrasound of heart chamber(s)) (37.28)

00.25 Intravascular imaging of renal vessels
   Intravascular ultrasound (IVUS), renal vessels
   Renal artery

   Excludes: diagnostic ultrasound (non-invasive) of urinary system (88.75)

00.28 Intravascular imaging, other specified vessel(s)
00.29 Intravascular imaging, unspecified vessel(s)

00.3 Computer assisted surgery [CAS]®
   CT-free navigation
   Image guided navigation (IGN)
   Image guided surgery (IGS)
   Imageless navigation
   That without the use of robotic(s) technology

   Code also diagnostic or therapeutic procedure

   Excludes: stereotactic frame application only (93.59)
   robotic assisted procedures (17.41-17.49)

00.31 Computer assisted surgery with CT/CTA
00.32 Computer assisted surgery with MR/MRA
00.33 Computer assisted surgery with fluoroscopy
00.34 Imageless computer assisted surgery
00.35 Computer assisted surgery with multiple datasets
00.39 Other computer assisted surgery
   Computer assisted surgery NOS
00.4 Adjunct Vascular System Procedures

Note: These codes can apply to both coronary and peripheral vessels. These codes are to be used in conjunction with other therapeutic procedure codes to provide additional information on the number of vessels upon which a procedure was performed and/or the number of stents inserted. As appropriate, code both the number of vessels operated on (00.40-00.43), and the number of stents inserted (00.45-00.48).

Code also any:
- angioplasty or atherectomy (00.61-00.62, 00.66, 39.50)
- endarterectomy (38.10-38.18)
- insertion of vascular stent(s) (00.55, 00.63-00.65, 36.06-36.07, 39.90)
- other removal of coronary artery obstruction (36.09)

00.40 Procedure on single vessel
   Number of vessels, unspecified

   Excludes: (aorto) coronary bypass (36.10-36.19)
   intravascular imaging of blood vessels (00.21-00.29)

00.41 Procedure on two vessels
   Excludes: (aorto) coronary bypass (36.10-36.19)
   intravascular imaging of blood vessels (00.21-00.29)

00.42 Procedure on three vessels
   Excludes: (aorto) coronary bypass (36.10-36.19)
   intravascular imaging of blood vessels (00.21-00.29)

00.43 Procedure on four or more vessels
   Excludes: (aorto) coronary bypass (36.10-36.19)
   intravascular imaging of blood vessels (00.21-00.29)

00.44 Procedure on vessel bifurcation
   Note: This code is to be used to identify the presence of a vessel bifurcation; it does not describe a specific bifurcation stent. Use this code only once per operative episode, irrespective of the number of bifurcations in vessels.

00.45 Insertion of one vascular stent
   Number of stents, unspecified

00.46 Insertion of two vascular stents

00.47 Insertion of three vascular stents

00.48 Insertion of four or more vascular stents

00.49 SuperSaturated oxygen therapy
   Aqueous oxygen (AO) therapy
   SSO2
   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)  

00.5  Other cardiovascular procedures

00.50  Implantation of cardiac resynchronization pacemaker  without mention of defibrillation, total system [CRT- P]  
Biventricular pacemaker  
Biventricular pacing without internal cardiac defibrillator  
BiV pacemaker  
Implantation of cardiac resynchronization (biventricular) pulse generator pacing device, formation of pocket, transvenous leads including placement of lead into left ventricular coronary venous system, and intraoperative procedures for evaluation of lead signals.  
That with CRT- P generator and one or more leads  
Note:  Device testing during procedure --omit code  
Excludes:  implantation of cardiac resynchronization defibrillator, total system  [CRT-D] (00.51)  
insertion or replacement of any type pacemaker device (37.80-37.87)  
replacement of cardiac resynchronization defibrillator pulse generator only [CRT-D] (00.54)  
replacement of cardiac resynchronization pacemaker pulse generator only [CRT-P] (00.53)  

00.51  Implantation of cardiac resynchronization defibrillator, total system [CRT- D]  
BiV defibrillator  
Biventricular defibrillator  
Biventricular pacing with internal cardiac defibrillator  
BiV ICD  
BiV pacemaker with defibrillator  
BiV pacing with defibrillator  
Implantation of a cardiac resynchronization (biventricular) pulse generator with defibrillator [AICD], formation of pocket, transvenous leads, including placement of lead into left ventricular coronary venous system, intraoperative procedures for evaluation of lead signals, and obtaining defibrillator threshold measurements.  
That with CRT- D generator and one or more leads  
Note:  Device testing during procedure --omit code  
Excludes:  implantation of cardiac resynchronization pacemaker, total system [CRT-P] (00.50)  
implantation or replacement of automatic cardioverter/defibrillator, total system [AICD] (37.94)  
replacement of cardiac resynchronization defibrillator pulse generator, only [CRT-D] (00.54)  

New code  Revised code  4  4th digit required
00.52 Implantation or replacement of transvenous lead [electrode] into left ventricular coronary venous system

*Excludes:* implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51)
implantation of cardiac resynchronization pacemaker, total system [CRT-P] (00.50)
initial insertion of transvenous lead [electrode] (37.70-37.72)
replacement of transvenous atrial and/or ventricular lead(s) [electrodes] (37.76)

00.53 Implantation or replacement of cardiac resynchronization pacemaker pulse generator only [CRT-P]

Implantation of CRT-P device with removal of any existing CRT-P or other pacemaker device

*Note:* Device testing during procedure --*omit code*

*Excludes:* implantation of cardiac resynchronization pacemaker, total system [CRT-P] (00.50)
implantation or replacement of cardiac resynchronization defibrillator pulse generator only [CRT-D] (00.54)
insertion or replacement of any type pacemaker device (37.80-37.87)

00.54 Implantation or replacement of cardiac resynchronization defibrillator pulse generator device only [CRT-D]

Implantation of CRT-D device with removal of any existing CRT-D, CRT-P, pacemaker, or defibrillator device

*Note:* Device testing during procedure --*omit code*

*Excludes:* implantation of automatic cardioverter/defibrillator pulse generator only (37.96)
implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51)
implantation or replacement of cardiac resynchronization pacemaker pulse generator only [CRT-P] (00.53)

00.55 Insertion of drug-eluting peripheral vessel stent(s)

Endograft(s)
Endovascular graft(s)
Stent grafts

Code also any:
angioplasty or atherectomy of other non-coronary vessels(s) (39.50)
number of vascular stents inserted (00.45 – 00.48)
number of vessels treated (00.40 – 00.43)
procedure on vessel bifurcation (00.44)

*Excludes:* drug-coated peripheral stents, e.g., heparin coated (39.90)
insertion of cerebrovascular stent(s) (00.63-00.65)
insertion of drug-eluting coronary artery stent (36.07)
insertion of non-drug-eluting stent(s):
coronary artery (36.06)
peripheral vessel (39.90)
that for aneurysm repair (39.71 - 39.79)
00.56 Insertion or replacement of implantable pressure sensor (lead) for intracardiac or great vessel hemodynamic monitoring

Code also any associated implantation or replacement of monitor (00.57)

Excludes: circulatory monitoring (blood gas, arterial or venous pressure, cardiac output and coronary blood flow) (89.60 - 89.69)

00.57 Implantation or replacement of subcutaneous device for intracardiac or great vessel hemodynamic monitoring

Implantation of monitoring device with formation of subcutaneous pocket and connection to intracardiac pressure sensor (lead)

Code also any associated insertion or replacement of implanted pressure sensor (lead) (00.56)

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)

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)

00.6 Procedures on blood vessels

00.61 Percutaneous angioplasty or atherectomy of precerebral (extracranial) vessel(s)

Basilar
Carotid
Vertebral

Code also any:
  injection or infusion of thrombolytic agent (99.10)
  percutaneous insertion of carotid artery stent(s) (00.63)
  percutaneous insertion of other precerebral artery stent(s) (00.64)
  number of vascular stents inserted (00.45 - 00.48)
  number of vessels treated (00.40 - 00.43)
  procedure on vessel bifurcation (00.44)

Excludes: angioplasty or atherectomy of other non-coronary vessel(s) (39.50)
removal of cerebrovascular obstruction of vessel(s) by open approach (38.01-38.02, 38.11-38.12, 38.31-38.32, 38.41-38.42)

00.62 Percutaneous angioplasty or atherectomy of intracranial vessel(s)

Code also any:
  injection or infusion of thrombolytic agent (99.10)
  percutaneous insertion of intracranial stent(s) (00.65)
  number of vascular stents inserted (00.45 - 00.48)
  number of vessels treated (00.40 - 00.43)
  procedure on vessel bifurcation (00.44)
**Excludes:** angioplasty or atherectomy of other non-coronary vessel(s) (39.50)
removal of cerebrovascular obstruction of vessel(s) by open approach (38.01-38.02, 38.11-38.12, 38.31-38.32, 38.41-38.42)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00.63</td>
<td>Percutaneous insertion of carotid artery stent(s)</td>
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<td>Includes the use of any embolic protection device, distal protection device, filter device, or stent delivery system</td>
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<td>Non-drug-eluting stent</td>
</tr>
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</tr>
<tr>
<td></td>
<td>number of vascular stents inserted (00.45 – 00.48)</td>
</tr>
<tr>
<td></td>
<td>number of vessels treated (00.40 – 00.43)</td>
</tr>
<tr>
<td></td>
<td>percutaneous angioplasty or atherectomy of precerebral vessel(s) (00.61)</td>
</tr>
<tr>
<td></td>
<td>procedure on vessel bifurcation (00.44)</td>
</tr>
<tr>
<td></td>
<td>Excludes: angioplasty or atherectomy of other non-coronary vessel(s) (39.50)</td>
</tr>
<tr>
<td></td>
<td>insertion of drug-eluting peripheral vessel stent(s) (00.55)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00.64</td>
<td>Percutaneous insertion of other precerebral (extracranial) artery stent(s)</td>
</tr>
<tr>
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<td>Includes the use of any embolic protection device, distal protection device, filter device, or stent delivery system</td>
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<tr>
<td></td>
<td>Basilar stent</td>
</tr>
<tr>
<td></td>
<td>Vertebral stent</td>
</tr>
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</tr>
<tr>
<td></td>
<td>percutaneous angioplasty or atherectomy of precerebral vessel(s) (00.61)</td>
</tr>
<tr>
<td></td>
<td>procedure on vessel bifurcation (00.44)</td>
</tr>
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<td>Excludes: angioplasty or atherectomy of other non-coronary vessel(s) (39.50)</td>
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<td>insertion of drug-eluting peripheral vessel stent(s) (00.55)</td>
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</table>

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>00.65</td>
<td>Percutaneous insertion of intracranial vascular stent(s)</td>
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<td>procedure on vessel bifurcation (00.44)</td>
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<td></td>
<td>Excludes: angioplasty or atherectomy of other non-coronary vessel(s) (39.50)</td>
</tr>
<tr>
<td></td>
<td>insertion of drug-eluting peripheral vessel stent(s) (00.55)</td>
</tr>
</tbody>
</table>
00.66 Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy
- Balloon angioplasty of coronary artery
- Coronary atherectomy
- Percutaneous coronary angioplasty NOS
- PTCA NOS
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)
- procedure on vessel bifurcation (00.44)
- SuperSaturated oxygen therapy (00.49)

00.67 Intravascular pressure measurement of intrathoracic arteries
- Assessment of: aorta and aortic arch
carotid
Code also any synchronous diagnostic or therapeutic procedures

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

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)

00.7 Other hip procedures

00.70 Revision of hip replacement, both acetabular and femoral components
- Total hip revision
Code also any:
- removal of (cement) (joint) spacer (84.57)
- type of bearing surface, if known (00.74 – 00.77)
Excludes:
  revision of hip replacement, acetabular component only (00.71)
  revision of hip replacement, femoral component only (00.72)
  revision of hip replacement, Not Otherwise Specified (81.53)
  revision with replacement of acetabular liner and/or femoral head only (00.73)
Revision of hip replacement, acetabular component
Partial, acetabular component only
That with:
exchange of acetabular cup and liner
exchange of femoral head
Code also any type of bearing surface, if known *(00.74 – 00.77)*

*Excludes:*
revision of hip replacement, both acetabular and femoral components *(00.70)*
revision of hip replacement, femoral component *(00.72)*
revision of hip replacement, Not Otherwise Specified *(81.53)*
revision with replacement of acetabular liner and/or femoral head only *(00.73)*

Revision of hip replacement, femoral component
Partial, femoral component only
That with:
exchange of acetabular liner
exchange of femoral stem and head
Code also any type of bearing surface, if known *(00.74 – 00.77)*

*Excludes:*
revision of hip replacement, acetabular component *(00.71)*
revision of hip replacement, both acetabular and femoral components *(00.70)*
revision of hip replacement, not otherwise specified *(81.53)*
revision with replacement of acetabular liner and/or femoral head only *(00.73)*

Revision of hip replacement, acetabular liner and/or femoral head only
Code also any type of bearing surface, if known *(00.74 – 00.77)*

Hip bearing surface, metal on polyethylene ®

Hip bearing surface, metal-on-metal ®

Hip bearing surface, ceramic-on-ceramic ®

Hip bearing surface, ceramic-on-polyethylene ®

Other knee and hip procedures
Note: Report up to two components using *00.81 – 00.83* to describe revision of knee replacements. If all three components are revised, report *00.80.*

Revision of knee replacement, total (all components)
Replacement of femoral, tibial, and patellar components (all components)
Code also any removal of (cement) (joint) spacer *(84.57)*

*Excludes: revision of only one or two components (tibial, femoral or patellar component) *(00.81 – 00.84)*

Revision of knee replacement, tibial component
Replacement of tibial baseplate and tibial insert (liner)

*Excludes: revision of knee replacement, total (all components) *(00.80)*
00.82  Revision of knee replacement, femoral component
That with replacement of tibial insert (liner)
Excludes: revision of knee replacement, total (all components) (00.80)

00.83  Revision of knee replacement, patellar component
Excludes: revision of knee replacement, total (all components) (00.80)

00.84  Revision of total knee replacement, tibial insert (liner)
Replacement of tibial insert (liner)
Excludes: that with replacement of tibial component (tibial baseplate and liner) (00.81)

00.85  Resurfacing hip, total, acetabulum and femoral head
Hip resurfacing arthroplasty, total

00.86  Resurfacing hip, partial, femoral head
Hip resurfacing arthroplasty, NOS
Hip resurfacing arthroplasty, partial, femoral head
Excludes: that with resurfacing of acetabulum (00.85)

00.87  Resurfacing hip, partial, acetabulum
Hip resurfacing arthroplasty, partial, acetabulum
Excludes: that with resurfacing of femoral head (00.85)

00.9  Other procedures and interventions

00.91  Transplant from live related donor
Code also organ transplant procedure

00.92  Transplant from live non-related donor
Code also organ transplant procedure

00.93  Transplant from cadaver
Code also organ transplant procedure

00.94  Intra-operative neurophysiologic monitoring
Includes: Cranial nerve, peripheral nerve and spinal cord
testing performed intra-operatively
Intra-operative neurophysiologic testing
IOM
Nerve monitoring
Neuromonitoring

Excludes: brain temperature monitoring (01.17)
intracranial oxygen monitoring (01.16)
intracranial pressure monitoring (01.10)
plethysmogram (89.58)
1. OPERATIONS ON THE NERVOUS SYSTEM (01-05)

01 Incision and excision of skull, brain, and cerebral meninges

01.0 Cranial puncture

01.01 Cisternal puncture
   Cisternal tap
   Excludes: pneumocisternogram (87.02)

01.02 Ventriculopuncture through previously implanted catheter
   Puncture of ventricular shunt tubing

01.09 Other cranial puncture
   Aspiration of:
   - subarachnoid space
   - subdural space
   - Cranial aspiration NOS
   - Puncture of anterior fontanel
   - Subdural tap (through fontanel)

01.1 Diagnostic procedures on skull, brain, and cerebral meninges

01.10 Intracranial pressure monitoring
   Includes: insertion of catheter or probe for monitoring

01.11 Closed [percutaneous] [needle] biopsy of cerebral meninges
   Burr hole approach

01.12 Open biopsy of cerebral meninges

01.13 Closed [percutaneous] [needle] biopsy of brain
   Burr hole approach
   Stereotactic method

01.14 Open biopsy of brain

01.15 Biopsy of skull

01.16 Intracranial oxygen monitoring
   Includes: insertion of catheter or probe for monitoring
   Partial pressure of brain oxygen (PbtO2)

01.17 Brain temperature monitoring
   Includes: insertion of catheter or probe for monitoring

01.18 Other diagnostic procedures on brain and cerebral meninges
   Excludes: cerebral:
   - arteriography (88.41)
   - thermography (88.81)
   - contrast radiogram of brain (87.01-87.02)
   - echoencephalogram (88.71)
   - electroencephalogram (89.14)
   - microscopic examination of specimen from nervous system and
     of spinal fluid (90.01-90.09)
   - neurologic examination (89.13)
   - phlebography of head and neck (88.61)
   - pneumoencephalogram (87.01)
radioisotope scan:
cerebral (92.11)
head NEC (92.12)
tomography of head:
C.A.T. scan (87.03)
other (87.04)
brain temperature monitoring (01.17)
intracranial oxygen monitoring (01.16)
intracranial pressure monitoring (01.10)

01.19 Other diagnostic procedures on skull
Excludes: transillumination of skull (89.16)
        x-ray of skull (87.17)

01.2 Craniotomy and craniectomy
Excludes: decompression of skull fracture (02.02)
        exploration of orbit (16.01-16.09)
that as operative approach --omit code

01.21 Incision and drainage of cranial sinus

01.22 Removal of intracranial neurostimulator lead(s)
        Code also any removal of neurostimulator pulse generator (86.05)
Excludes: removal with synchronous replacement (02.93)

01.23 Reopening of craniotomy site

01.24 Other craniotomy
        Cranial:
        decompression
        exploration
        trephination
        Craniotomy NOS
        Craniotomy with removal of:
        epidural abscess
        extradural hematoma
        foreign body of skull
Excludes: removal of foreign body with incision into brain (01.39)

01.25 Other craniectomy
        Debridement of skull NOS
        Sequestrectomy of skull
Excludes: debridement of compound fracture of skull (02.02)
        strip craniectomy (02.01)

01.26 Insertion of catheter(s) into cranial cavity or tissue
        Code also any concomitant procedure (e.g. resection (01.59))
Excludes: placement of intracerebral catheter(s) via burr hole(s) (01.28)

01.27 Removal of catheter(s) from cranial cavity or tissue

01.28 Placement of intracerebral catheter(s) via burr hole(s)
        Convection enhanced delivery
        Stereotactic placement of intracerebral catheter(s)
        Code also infusion of medication
Excludes: insertion of catheter(s) into cranial cavity or tissue(s) (01.26)
01.3 Incision of brain and cerebral meninges

01.31 Incision of cerebral meninges
  Drainage of:
  intracranial hygroma
  subarachnoid abscess (cerebral)
  subdural empyema

01.32 Lobotomy and tractotomy
  Division of:
  brain tissue
  cerebral tracts
  Percutaneous (radiofrequency) cingulotomy

01.39 Other incision of brain
  Amygdalohippocampotomy
  Drainage of intracerebral hematoma
  Incision of brain NOS

  *Excludes: division of cortical adhesions (02.91)*

01.4 Operations on thalamus and globus pallidus

01.41 Operations on thalamus
  Chemothalamectomy
  Thalamotomy

  *Excludes: that by stereotactic radiosurgery (92.30 - 92.39)*

01.42 Operations on globus pallidus
  Pallidoansectomy
  Pallidotomy

  *Excludes: that by stereotactic radiosurgery (92.30 - 92.39)*

01.5 Other excision or destruction of brain and meninges

01.51 Excision of lesion or tissue of cerebral meninges
  Decortication of (cerebral) meninges
  Resection of (cerebral) meninges
  Stripping of subdural membrane of (cerebral) meninges

  *Excludes: biopsy of cerebral meninges (01.11-01.12)*

01.52 Hemispherectomy

01.53 Lobectomy of brain

01.59 Other excision or destruction of lesion or tissue of brain
  Curettage of brain
  Debridement of brain
  Marsupialization of brain cyst
  Transtemporal (mastoid) excision of brain tumor

  *Excludes: biopsy of brain (01.13-01.14)
  that by stereotactic radiosurgery (92.30 - 92.39)
  laser interstitial thermal therapy [LITT] of lesion or tissue of brain under guidance (17.61)*

01.6 Excision of lesion of skull
  Removal of granulation tissue of cranium

  *Excludes: biopsy of skull (01.15)
  sequestrectomy (01.25)*
02 Other operations on skull, brain, and cerebral meninges

02.0 Cranioplasty

*Excludes:* that with synchronous repair of encephalocele (02.12)

02.01 Opening of cranial suture
   - Linear craniectomy
   - Strip craniectomy

02.02 Elevation of skull fracture fragments
   - Debridement of compound fracture of skull
   - Decompression of skull fracture
   - Reduction of skull fracture
   - Code also any synchronous debridement of brain (01.59)
   *Excludes:* debridement of skull NOS (01.25) removal of granulation tissue of cranium (01.6)

02.03 Formation of cranial bone flap
   - Repair of skull with flap

02.04 Bone graft to skull
   - Pericranial graft (autogenous) (heterogenous)

02.05 Insertion of skull plate
   - Replacement of skull plate

02.06 Other cranial osteoplasty
   - Repair of skull NOS
   - Revision of bone flap of skull

02.07 Removal of skull plate
   *Excludes:* removal with synchronous replacement (02.05)

02.1 Repair of cerebral meninges

*Excludes:* marsupialization of cerebral lesion (01.59)

02.11 Simple suture of dura mater of brain

02.12 Other repair of cerebral meninges
   - Closure of fistula of cerebrospinal fluid
   - Dural graft
   - Repair of encephalocele including synchronous cranioplasty
   - Repair of meninges NOS
   - Subdural patch

02.13 Ligation of meningeal vessel
   - Ligation of:
     - longitudinal sinus
     - middle meningeal artery

02.14 Choroid plexectomy
   - Cauterization of choroid plexus

02.2 Ventriculostomy
   - Anastomosis of ventricle to:
     - cervical subarachnoid space
     - cisterna magna
   - Insertion of Holter valve
   - Ventriculocisternal intubation
02.3 Extracranial ventricular shunt
Includes: that with insertion of valve
- 02.31 Ventricular shunt to structure in head and neck
  - Ventricle to nasopharynx shunt
  - Ventriclemastoid anastomosis
- 02.32 Ventricular shunt to circulatory system
  - Ventriculoatrial anastomosis
  - Ventriculocaval shunt
- 02.33 Ventricular shunt to thoracic cavity
  - Ventriculopleural anastomosis
- 02.34 Ventricular shunt to abdominal cavity and organs
  - Ventriculocholecystostomy
  - Ventriculoperitoneostomy
- 02.35 Ventricular shunt to urinary system
  - Ventricle to ureter shunt
- 02.39 Other operations to establish drainage of ventricle
  - Ventricle to bone marrow shunt
  - Ventricular shunt to extracranial site NEC

02.4 Revision, removal, and irrigation of ventricular shunt
Excludes: revision of distal catheter of ventricular shunt (54.95)
- 02.41 Irrigation and exploration of ventricular shunt
  - Exploration of ventriculoperitoneal shunt at ventricular site
  - Re-programming of ventriculoperitoneal shunt
- 02.42 Replacement of ventricular shunt
  - Reinsertion of Holter valve
  - Replacement of ventricular catheter
  - Revision of ventriculoperitoneal shunt at ventricular site
- 02.43 Removal of ventricular shunt

02.9 Other operations on skull, brain, and cerebral meninges
Excludes: operations on:
  - pineal gland (07.17, 07.51-07.59)
  - pituitary gland [hypophysis] (07.13-07.15, 07.61-07.79)
- 02.91 Lysis of cortical adhesions
- 02.92 Repair of brain
- 02.93 Implantation or replacement of intracranial neurostimulator lead(s)
  - Implantation, insertion, placement, or replacement of intracranial:
    - brain pacemaker [neuropacemaker]
    - depth electrodes
    - epidural pegs
    - electroencephalographic receiver
    - foramen ovale electrodes
    - intracranial electrostimulator
    - subdural grids
    - subdural strips
  - Code also any insertion of neurostimulator pulse generator(86.94-86.98)
- 02.94 Insertion or replacement of skull tongs or halo traction device
02.95  Removal of skull tongs or halo traction device
02.96  Insertion of sphenoidal electrodes
02.99  Other

Excludes: chemical shock therapy (94.24)
electroshock therapy:
  subconvulsive (94.26)
  other (94.27)

03  Operations on spinal cord and spinal canal structures
Code also any application or administration of an adhesion barrier substance (99.77)

03.0  Exploration and decompression of spinal canal structures
03.01  Removal of foreign body from spinal canal
03.02  Reopening of laminectomy site
03.09  Other exploration and decompression of spinal canal
Decompression:
  laminectomy
  laminotomy
  Expansile laminoplasty
  Exploration of spinal nerve root
  Foraminotomy

Code also any synchronous insertion, replacement and revision of posterior spinal motion preservation device(s), if performed (84.80 - 84.85)

Excludes: drainage of spinal fluid by anastomosis (03.71-03.79)
laminectomy with excision of intervertebral disc (80.51)
spinal tap (03.31)
that as operative approach --omit code

03.1  Division of intraspinal nerve root
Rhizotomy

03.2  Chordotomy
03.21  Percutaneous chordotomy
  Stereotactic chordotomy
03.29  Other chordotomy
  Chordotomy NOS
  Tractotomy (one-stage) (two-stage) of spinal cord
  Transection of spinal cord tracts

03.3  Diagnostic procedures on spinal cord and spinal canal structures
03.31  Spinal tap
  Lumbar puncture for removal of dye
  Excludes: lumbar puncture for injection of dye [myelogram] (87.21)
03.32  Biopsy of spinal cord or spinal meninges
03.39  Other diagnostic procedures on spinal cord and spinal canal structures
Excludes: microscopic examination of specimen from nervous system or of spinal fluid (90.01-90.09)
x-ray of spine (87.21-87.29)

03.4 Excision or destruction of lesion of spinal cord or spinal meninges
- Curettage of spinal cord or spinal meninges
- Debridement of spinal cord or spinal meninges
- Marsupialization of cyst of spinal cord or spinal meninges
- Resection of spinal cord or spinal meninges
Excludes: biopsy of spinal cord or meninges (03.32)

03.5 Plastic operations on spinal cord structures

<table>
<thead>
<tr>
<th>03.51</th>
<th>Repair of spinal meningocele</th>
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<tbody>
<tr>
<td></td>
<td>Repair of meningocele NOS</td>
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</tbody>
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| 03.52 | Repair of spinal myelomeningocele |

<table>
<thead>
<tr>
<th>03.53</th>
<th>Repair of vertebral fracture</th>
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<tbody>
<tr>
<td></td>
<td>Elevation of spinal bone fragments</td>
</tr>
<tr>
<td></td>
<td>Reduction of fracture of vertebrae</td>
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<td></td>
<td>Removal of bony spicules from spinal canal</td>
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</table>

Excludes: percutaneous vertebral augmentation (81.66)
Percutaneous vertebroplasty (81.65)

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<thead>
<tr>
<th>03.59</th>
<th>Other repair and plastic operations on spinal cord structures</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Repair of:</td>
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<tr>
<td></td>
<td>diastematomyelia</td>
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<td></td>
<td>spina bifida NOS</td>
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<tr>
<td></td>
<td>spinal cord NOS</td>
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<tr>
<td></td>
<td>spinal meninges NOS</td>
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<tr>
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<td>vertebral arch defect</td>
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</table>

03.6 Lysis of adhesions of spinal cord and nerve roots

03.7 Shunt of spinal theca
Includes: that with valve

<table>
<thead>
<tr>
<th>03.71</th>
<th>Spinal subarachnoid- peritoneal shunt</th>
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<tr>
<th>03.72</th>
<th>Spinal subarachnoid- ureteral shunt</th>
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<tr>
<th>03.79</th>
<th>Other shunt of spinal theca</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Lumbar- subarachnoid shunt NOS</td>
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<tr>
<td></td>
<td>Pleurothecal anastomosis</td>
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<tr>
<td></td>
<td>Salpingothecal anastomosis</td>
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</tbody>
</table>

03.8 Injection of destructive agent into spinal canal

03.9 Other operations on spinal cord and spinal canal structures

<table>
<thead>
<tr>
<th>03.90</th>
<th>Insertion of catheter into spinal canal for infusion of therapeutic or palliative substances</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Insertion of catheter into epidural, subarachnoid, or subdural space of spine with intermittent or continuous infusion of drug (with creation of any reservoir)</td>
</tr>
</tbody>
</table>

Code also any implantation of infusion pump (86.06)
03.91 Injection of anesthetic into spinal canal for analgesia
   Excludes: that for operative anesthesia -- omit code

03.92 Injection of other agent into spinal canal
   Intrathecal injection of steroid
   Subarachnoid perfusion of refrigerated saline
   Excludes: injection of:
   contrast material for myelogram (87.21)
   destructive agent into spinal canal (03.8)

03.93 Implantation or replacement of spinal neurostimulator lead(s)
   Code also any insertion of neurostimulator pulse generator
   (86.94-86.98)

03.94 Removal of spinal neurostimulator lead(s)
   Code also any removal of neurostimulator pulse generator (86.05)

03.95 Spinal blood patch

03.96 Percutaneous denervation of facet

03.97 Revision of spinal thecal shunt

03.98 Removal of spinal thecal shunt

03.99 Other

04 Operations on cranial and peripheral nerves

04.0 Incision, division, and excision of cranial and peripheral nerves
   Excludes: opticociliary neurectomy (12.79)
   sympathetic ganglionectomy (05.21-05.29)

04.01 Excision of acoustic neuroma
   That by craniotomy
   Excludes: that by stereotactic radiosurgery (92.30 - 92.39)

04.02 Division of trigeminal nerve
   Retrogasserian neurotomy

04.03 Division or crushing of other cranial and peripheral nerves
   Excludes: that of:
   glossopharyngeal nerve (29.92)
   laryngeal nerve (31.91)
   nerves to adrenal glands (07.42)
   phrenic nerve for collapse of lung (33.31)
   vagus nerve (44.00-44.03)

04.04 Other incision of cranial and peripheral nerves

04.05 Gasserian ganglionectomy

04.06 Other cranial or peripheral ganglionectomy
   Excludes: sympathetic ganglionectomy (05.21-05.29)

04.07 Other excision or avulsion of cranial and peripheral nerves
   Curettage of peripheral nerve
   Debridement of peripheral nerve
   Resection of peripheral nerve
   Excision of peripheral neuroma [Morton's]
   Excludes: biopsy of cranial or peripheral nerve (04.11-04.12)
04.1 Diagnostic procedures on peripheral nervous system

04.11 Closed [percutaneous] [needle] biopsy of cranial or peripheral nerve or ganglion
04.12 Open biopsy of cranial or peripheral nerve or ganglion
04.19 Other diagnostic procedures on cranial and peripheral nerves and ganglia

Excludes: microscopic examination of specimen from nervous system (90.01-90.09)
neurologic examination (89.13)

04.2 Destruction of cranial and peripheral nerves

Destruction of cranial or peripheral nerves by:
cryoanalgesia
injection of neurolytic agent
radiofrequency
Radiofrequency ablation

04.3 Suture of cranial and peripheral nerves

04.4 Lysis of adhesions and decompression of cranial and peripheral nerves

04.41 Decompression of trigeminal nerve root
04.42 Other cranial nerve decompression
04.43 Release of carpal tunnel
04.44 Release of tarsal tunnel
04.49 Other peripheral nerve or ganglion decompression or lysis of adhesions

Peripheral nerve neurolysis NOS

04.5 Cranial or peripheral nerve graft

04.6 Transposition of cranial and peripheral nerves

Nerve transplantation

04.7 Other cranial or peripheral neuroplasty

04.71 Hypoglossal- facial anastomosis
04.72 Accessory- facial anastomosis
04.73 Accessory- hypoglossal anastomosis
04.74 Other anastomosis of cranial or peripheral nerve
04.75 Revision of previous repair of cranial and peripheral nerves
04.76 Repair of old traumatic injury of cranial and peripheral nerves
04.79 Other neuroplasty

04.8 Injection into peripheral nerve

Excludes: destruction of nerve (by injection of neurolytic agent) (04.2)

04.80 Peripheral nerve injection, not otherwise specified
04.81 Injection of anesthetic into peripheral nerve for analgesia

Excludes: that for operative anesthesia -omit code
04.89 Injection of other agent, except neurolytic
   Excludes: injection of neurolytic agent (04.2)

04.9 Other operations on cranial and peripheral nerves

04.91 Neurectasis

04.92 Implantation or replacement of peripheral neurostimulator lead(s)
   Code also any insertion of neurostimulator pulse generator
   (86.94-86.98)

04.93 Removal of peripheral neurostimulator lead(s)
   Code also any removal of neurostimulator pulse generator (86.05)

04.99 Other

05 Operations on sympathetic nerves or ganglia
   Excludes: paracervical uterine denervation (69.3)

05.0 Division of sympathetic nerve or ganglion
   Excludes: that of nerves to adrenal glands (07.42)

05.1 Diagnostic procedures on sympathetic nerves or ganglia

05.11 Biopsy of sympathetic nerve or ganglion

05.19 Other diagnostic procedures on sympathetic nerves or ganglia

05.2 Sympathectomy

05.21 Sphenopalatine ganglionectomy

05.22 Cervical sympathectomy

05.23 Lumbar sympathectomy

05.24 Presacral sympathectomy

05.25 Periarterial sympathectomy

05.29 Other sympathectomy and ganglionectomy
   Excision or avulsion of sympathetic nerve NOS
   Sympathetic ganglionectomy NOS
   Excludes: biopsy of sympathetic nerve or ganglion (05.11)
   opticociliary neurectomy (12.79)
   periarterial sympathectomy (05.25)
   tympanosympathectomy (20.91)

05.3 Injection into sympathetic nerve or ganglion
   Excludes: injection of ciliary sympathetic ganglion (12.79)

05.31 Injection of anesthetic into sympathetic nerve for analgesia

05.32 Injection of neurolytic agent into sympathetic nerve

05.39 Other injection into sympathetic nerve or ganglion

05.8 Other operations on sympathetic nerves or ganglia

05.81 Repair of sympathetic nerve or ganglion

05.89 Other

05.9 Other operations on nervous system
2. OPERATIONS ON THE ENDOCRINE SYSTEM (06-07)

06 Operations on thyroid and parathyroid glands
Includes: incidental resection of hyoid bone

06.0 Incision of thyroid field
Excludes: division of isthmus (06.91)

06.01 Aspiration of thyroid field
Percutaneous or needle drainage of thyroid field
Excludes: aspiration biopsy of thyroid (06.11)
drainage by incision (06.09)
postoperative aspiration of field (06.02)

06.02 Reopening of wound of thyroid field
Reopening of wound of thyroid field for:
control of (postoperative) hemorrhage
examination
exploration
removal of hematoma

06.09 Other incision of thyroid field
Drainage of hematoma by incision
Drainage of thyroglossal tract by incision
Exploration:
neck by incision
thyroid (field) by incision
Removal of foreign body by incision
Thyroidotomy NOS by incision
Excludes: postoperative exploration (06.02)
removal of hematoma by aspiration (06.01)

06.1 Diagnostic procedures on thyroid and parathyroid glands

06.11 Closed [percutaneous] [needle] biopsy of thyroid gland
Aspiration biopsy of thyroid

06.12 Open biopsy of thyroid gland

06.13 Biopsy of parathyroid gland

06.19 Other diagnostic procedures on thyroid and parathyroid glands
Excludes: radioisotope scan of:
parathyroid (92.13)
thyroid (92.01)
soft tissue x-ray of thyroid field (87.09)

06.2 Unilateral thyroid lobectomy
Complete removal of one lobe of thyroid (with removal of isthmus or portion of other lobe)
Hemithyroidectomy
Excludes: partial substernal thyroidectomy (06.51)
06.3 Other partial thyroidectomy

06.31 Excision of lesion of thyroid

Excludes: biopsy of thyroid (06.11-06.12)
laser interstitial thermal therapy [LITT] of lesion or tissue of neck under guidance (17.62)

06.39 Other

Isthmectomy
Partial thyroidectomy NOS

Excludes: partial substernal thyroidectomy (06.51)

06.4 Complete thyroidectomy

Excludes: complete substernal thyroidectomy (06.52)
that with laryngectomy (30.3-30.4)

06.5 Substernal thyroidectomy

06.50 Substernal thyroidectomy, not otherwise specified
06.51 Partial substernal thyroidectomy
06.52 Complete substernal thyroidectomy

06.6 Excision of lingual thyroid

Excision of thyroid by:
submental route
transoral route

06.7 Excision of thyroglossal duct or tract

06.8 Parathyroidectomy

06.81 Complete parathyroidectomy
06.89 Other parathyroidectomy
Parathyroidectomy NOS
Partial parathyroidectomy

Excludes: biopsy of parathyroid (06.13)

06.9 Other operations on thyroid (region) and parathyroid

06.91 Division of thyroid isthmus
Transection of thyroid isthmus

06.92 Ligation of thyroid vessels

06.93 Suture of thyroid gland

06.94 Thyroid tissue reimplantation
Autotransplantation of thyroid tissue

06.95 Parathyroid tissue reimplantation
Autotransplantation of parathyroid tissue

06.98 Other operations on thyroid glands

06.99 Other operations on parathyroid glands
07 Operations on other endocrine glands

Includes: operations on:
- adrenal glands
- pineal gland
- pituitary gland
- thymus

Excludes: operations on:
- aortic and carotid bodies (39.8)
- ovaries (65.0-65.99)
- pancreas (52.01-52.99)
- testes (62.0-62.99)

07.0 Exploration of adrenal field

Excludes: incision of adrenal (gland) (07.41)

07.00 Exploration of adrenal field, not otherwise specified
07.01 Unilateral exploration of adrenal field
07.02 Bilateral exploration of adrenal field

07.1 Diagnostic procedures on adrenal glands, pituitary gland, pineal gland, and thymus

07.11 Closed [percutaneous] [needle] biopsy of adrenal gland
07.12 Open biopsy of adrenal gland
07.13 Biopsy of pituitary gland, transfrontal approach
07.14 Biopsy of pituitary gland, transsphenoidal approach
07.15 Biopsy of pituitary gland, unspecified approach
07.16 Biopsy of thymus
07.17 Biopsy of pineal gland
07.19 Other diagnostic procedures on adrenal glands, pituitary gland, pineal gland, and thymus

Excludes: microscopic examination of specimen from endocrine gland (90.11-90.19)
radioisotope scan of pituitary gland (92.11)

07.2 Partial adrenalectomy

07.21 Excision of lesion of adrenal gland

Excludes: biopsy of adrenal gland (07.11-07.12)

07.22 Unilateral adrenalectomy
Adrenalectomy NOS

Excludes: excision of remaining adrenal gland (07.3)

07.29 Other partial adrenalectomy
Partial adrenalectomy NOS

07.3 Bilateral adrenalectomy

Excision of remaining adrenal gland

Excludes: bilateral partial adrenalectomy (07.29)
07.4 Other operations on adrenal glands, nerves, and vessels

07.41 Incision of adrenal gland
   Adrenalotomy (with drainage)
07.42 Division of nerves to adrenal glands
07.43 Ligation of adrenal vessels
07.44 Repair of adrenal gland
07.45 Reimplantation of adrenal tissue
   Autotransplantation of adrenal tissue
07.49 Other

07.5 Operations on pineal gland

07.51 Exploration of pineal field
   Excludes: that with incision of pineal gland (07.52)
07.52 Incision of pineal gland
07.53 Partial excision of pineal gland
   Excludes: biopsy of pineal gland (07.17)
07.54 Total excision of pineal gland
   Pinealectomy (complete) (total)
07.59 Other operations on pineal gland

07.6 Hypophysectomy

07.61 Partial excision of pituitary gland, transfrontal approach
   Cryohypophysectomy, partial transfrontal approach
   Division of hypophyseal stalk transfrontal approach
   Excision of lesion of pituitary [hypophysis] transfrontal approach
   Hypophysectomy, subtotal transfrontal approach
   Infundibulectomy, hypophyseal transfrontal approach
   Excludes: biopsy of pituitary gland, transfrontal approach (07.13)
07.62 Partial excision of pituitary gland, transsphenoidal approach
   Excludes: biopsy of pituitary gland, transsphenoidal approach (07.14)
07.63 Partial excision of pituitary gland, unspecified approach
   Excludes: biopsy of pituitary gland NOS (07.15)
07.64 Total excision of pituitary gland, transfrontal approach
   Ablation of pituitary by implantation (strontium-yttrium) (Y)
   transfrontal approach
   Cryohypophysectomy, complete transfrontal approach
07.65 Total excision of pituitary gland, transsphenoidal approach
07.68 Total excision of pituitary gland, other specified approach
07.69 Total excision of pituitary gland, unspecified approach
   Hypophysectomy NOS
   Pituitectomy NOS
07.7 Other operations on hypophysis

07.71 Exploration of pituitary fossa

Excludes: exploration with incision of pituitary gland (07.72)

07.72 Incision of pituitary gland

Aspiration of:
- craniobuccal pouch
- craniopharyngioma
- hypophysis
- pituitary gland
- Rathke's pouch

07.79 Other

Insertion of pack into sella turcica

07.8 Thymectomy

07.80 Thymectomy, not otherwise specified

07.81 Other partial excision of thymus

Open partial excision of thymus

Excludes: biopsy of thymus (07.16)
  thoracoscopic partial excision of thymus (07.83)

07.82 Other total excision of thymus

Open total excision of thymus

Excludes: thoracoscopic total excision of thymus (07.84)

07.83 Thoracoscopic partial excision of thymus

Excludes: other partial excision of thymus (07.81)

07.84 Thoracoscopic total excision of thymus

Excludes: other total excision of thymus (07.82)

07.9 Other operations on thymus

07.91 Exploration of thymus field

Excludes: exploration with incision of thymus (07.92)

07.92 Other incision of thymus

Open incision of thymus

Excludes: thoracoscopic incision of thymus (07.95)

07.93 Repair of thymus

07.94 Transplantation of thymus

07.95 Thoracoscopic incision of thymus

Excludes: other incision of thymus (07.92)

07.98 Other and unspecified thoracoscopic operations on thymus

07.99 Other and unspecified operations on thymus

Transcervical thymectomy

Excludes: other thoracoscopic operations on thymus (07.98)
08 Operations on eyelids
   Includes: operations on the eyebrow

08.0 Incision of eyelid
   08.01 Incision of lid margin
   08.02 Severing of blepharorrhaphy
   08.09 Other incision of eyelid

08.1 Diagnostic procedures on eyelid
   08.11 Biopsy of eyelid
   08.19 Other diagnostic procedures on eyelid

08.2 Excision or destruction of lesion or tissue of eyelid
   Code also any synchronous reconstruction (08.61-08.74)
   Excludes: biopsy of eyelid (08.11)
   08.20 Removal of lesion of eyelid, not otherwise specified
       Removal of meibomian gland NOS
   08.21 Excision of chalazion
   08.22 Excision of other minor lesion of eyelid
       Excision of:
       verucca
       wart
   08.23 Excision of major lesion of eyelid, partial-thickness
       Excision involving one-fourth or more of lid margin, partial-thickness
   08.24 Excision of major lesion of eyelid, full-thickness
       Excision involving one-fourth or more of lid margin, full-thickness
       Wedge resection of eyelid
   08.25 Destruction of lesion of eyelid

08.3 Repair of blepharoptosis and lid retraction
   08.31 Repair of blepharoptosis by frontalis muscle technique with suture
   08.32 Repair of blepharoptosis by frontalis muscle technique with fascial sling
   08.33 Repair of blepharoptosis by resection or advancement of levator muscle or aponeurosis
   08.34 Repair of blepharoptosis by other levator muscle techniques
   08.35 Repair of blepharoptosis by tarsal technique
   08.36 Repair of blepharoptosis by other techniques
       Correction of eyelid ptosis NOS
       Orbicularis oculi muscle sling for correction of blepharoptosis
   08.37 Reduction of overcorrection of ptosis
   08.38 Correction of lid retraction
08.4 Repair of entropion or ectropion
   08.41 Repair of entropion or ectropion by thermocauterization
   08.42 Repair of entropion or ectropion by suture technique
   08.43 Repair of entropion or ectropion with wedge resection
   08.44 Repair of entropion or ectropion with lid reconstruction
   08.49 Other repair of entropion or ectropion

08.5 Other adjustment of lid position
   08.51 Canthotomy
       Enlargement of palpebral fissure
   08.52 Blepharorrhaphy
       Canthorrhaphy
       Tarsorrhaphy
   08.59 Other
       Canthoplasty NOS
       Repair of epicanthal fold

08.6 Reconstruction of eyelid with flaps or grafts
   *Excludes: that associated with repair of entropion and ectropion (08.44)*
   08.61 Reconstruction of eyelid with skin flap or graft
   08.62 Reconstruction of eyelid with mucous membrane flap or graft
   08.63 Reconstruction of eyelid with hair follicle graft
   08.64 Reconstruction of eyelid with tarsconjunctival flap
       Transfer of tarsconjunctival flap from opposing lid
   08.69 Other reconstruction of eyelid with flaps or grafts

08.7 Other reconstruction of eyelid
   *Excludes: that associated with repair of entropion and ectropion (08.44)*
   08.70 Reconstruction of eyelid, not otherwise specified
   08.71 Reconstruction of eyelid involving lid margin, partial- thickness
   08.72 Other reconstruction of eyelid, partial- thickness
   08.73 Reconstruction of eyelid involving lid margin, full- thickness
   08.74 Other reconstruction of eyelid, full- thickness

08.8 Other repair of eyelid
   08.81 Linear repair of laceration of eyelid or eyebrow
   08.82 Repair of laceration involving lid margin, partial- thickness
   08.83 Other repair of laceration of eyelid, partial- thickness
   08.84 Repair of laceration involving lid margin, full- thickness
   08.85 Other repair of laceration of eyelid, full- thickness
   08.86 Lower eyelid rhytidectomy
   08.87 Upper eyelid rhytidectomy
   08.89 Other eyelid repair
### 08.9 Other operations on eyelids
- **08.91** Electrosurgical epilation of eyelid
- **08.92** Cryosurgical epilation of eyelid
- **08.93** Other epilation of eyelid
- **08.99** Other

### 09 Operations on lacrimal system

#### 09.0 Incision of lacrimal gland
Incision of lacrimal cyst (with drainage)

#### 09.1 Diagnostic procedures on lacrimal system
- **09.11** Biopsy of lacrimal gland
- **09.12** Biopsy of lacrimal sac
- **09.19** Other diagnostic procedures on lacrimal system
  - *Excludes:* contrast dacryocystogram (87.05)
  - soft tissue x-ray of nasolacrimal duct (87.09)

#### 09.2 Excision of lesion or tissue of lacrimal gland
- **09.20** Excision of lacrimal gland, not otherwise specified
- **09.21** Excision of lesion of lacrimal gland
  - *Excludes:* biopsy of lacrimal gland (09.11)
- **09.22** Other partial dacryoadenectomy
  - *Excludes:* biopsy of lacrimal gland (09.11)
- **09.23** Total dacryoadenectomy

#### 09.3 Other operations on lacrimal gland

#### 09.4 Manipulation of lacrimal passage
Includes: removal of calculus that with dilation
- *Excludes:* contrast dacryocystogram (87.05)
- **09.41** Probing of lacrimal punctum
- **09.42** Probing of lacrimal canaliculi
- **09.43** Probing of nasolacrimal duct
  - *Excludes:* that with insertion of tube or stent (09.44)
- **09.44** Intubation of nasolacrimal duct
  - Insertion of stent into nasolacrimal duct
- **09.49** Other manipulation of lacrimal passage

#### 09.5 Incision of lacrimal sac and passages
- **09.51** Incision of lacrimal punctum
- **09.52** Incision of lacrimal canaliculi
- **09.53** Incision of lacrimal sac
- **09.59** Other incision of lacrimal passages
  - Incision (and drainage) of nasolacrimal duct NOS
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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| 09.6 | Excision of lacrimal sac and passage  
*Excludes*: biopsy of lacrimal sac (09.12) |
| 09.7 | Repair of canaliculus and punctum  
*Excludes*: repair of eyelid (08.81-08.89) |
| 09.71 | Correction of everted punctum |
| 09.72 | Other repair of punctum |
| 09.73 | Repair of canaliculus |
| 09.8 | Fistulization of lacrimal tract to nasal cavity  
09.81 | Dacryocystorhinostomy [DCR]  
09.82 | Conjunctivocystorhinostomy  
Conjunctivodacryocystorhinostomy [CDCR]  
*Excludes*: that with insertion of tube or stent (09.83) |
| 09.83 | Conjunctivorhinostomy with insertion of tube or stent |
| 09.9 | Other operations on lacrimal system  
09.91 | Obliteration of lacrimal punctum |
| 09.99 | Other |
| 10.0 | Operations on conjunctiva  
10.00 | Removal of embedded foreign body from conjunctiva by incision  
*Excludes*: removal of:  
embedded foreign body without incision (98.22)  
superficial foreign body (98.21) |
| 10.1 | Other incision of conjunctiva |
| 10.2 | Diagnostic procedures on conjunctiva  
10.21 | Biopsy of conjunctiva |
| 10.29 | Other diagnostic procedures on conjunctiva |
| 10.3 | Excision or destruction of lesion or tissue of conjunctiva  
10.31 | Excision of lesion or tissue of conjunctiva  
Excision of ring of conjunctiva around cornea  
*Excludes*: biopsy of conjunctiva (10.21) |
| 10.32 | Destruction of lesion of conjunctiva  
*Excludes*: excision of lesion (10.31)  
thermocauterization for entropion (08.41) |
| 10.33 | Other destructive procedures on conjunctiva  
Removal of trachoma follicles |
| 10.4 | Conjunctivoplasty  
10.41 | Repair of symblepharon with free graft |
| 10.42 | Reconstruction of conjunctival cul-de-sac with free graft  
*Excludes*: revision of enucleation socket with graft (16.63) |
10.43 Other reconstruction of conjunctival cul-de-sac
   Excludes: revision of enucleation socket (16.64)

10.44 Other free graft to conjunctiva

10.49 Other conjunctivoplasty
   Excludes: repair of cornea with conjunctival flap (11.53)

10.5 Lysis of adhesions of conjunctiva and eyelid
   Division of symblepharon (with insertion of conformer)

10.6 Repair of laceration of conjunctiva
   Excludes: that with repair of sclera (12.81)

10.9 Other operations on conjunctiva
   10.91 Subconjunctival injection
   10.99 Other

11 Operations on cornea

11.0 Magnetic removal of embedded foreign body from cornea
   Excludes: that with incision (11.1)

11.1 Incision of cornea
   Incision of cornea for removal of foreign body

11.2 Diagnostic procedures on cornea
   11.21 Scraping of cornea for smear or culture
   11.22 Biopsy of cornea
   11.29 Other diagnostic procedures on cornea

11.3 Excision of pterygium
   11.31 Transposition of pterygium
   11.32 Excision of pterygium with corneal graft
   11.39 Other excision of pterygium

11.4 Excision or destruction of tissue or other lesion of cornea
   11.41 Mechanical removal of corneal epithelium
      That by chemocauterization
      Excludes: that for smear or culture (11.21)
   11.42 Thermocauterization of corneal lesion
   11.43 Cryotherapy of corneal lesion
   11.49 Other removal or destruction of corneal lesion
      Excision of cornea NOS
      Excludes: biopsy of cornea (11.22)

11.5 Repair of cornea
   11.51 Suture of corneal laceration
   11.52 Repair of postoperative wound dehiscence of cornea
   11.53 Repair of corneal laceration or wound with conjunctival flap
   11.59 Other repair of cornea
11.6 Corneal transplant

*Excludes:* excision of pterygium with corneal graft (11.32)

11.60 Corneal transplant, not otherwise specified
Keratoplasty NOS
Note: To report donor source -- see codes 00.91-00.93

11.61 Lamellar keratoplasty with autograft

11.62 Other lamellar keratoplasty

11.63 Penetrating keratoplasty with autograft
Perforating keratoplasty with autograft

11.64 Other penetrating keratoplasty
Perforating keratoplasty (with homograft)

11.69 Other corneal transplant

11.7 Other reconstructive and refractive surgery on cornea

11.71 Keratomileusis

11.72 Keratophakia

11.73 Keratoprosthesis

11.74 Thermokeratoplasty

11.75 Radial keratotomy

11.76 Epikeratophakia

11.79 Other

11.9 Other operations on cornea

11.91 Tattooing of cornea

11.92 Removal of artificial implant from cornea

11.99 Other

12 Operations on iris, ciliary body, sclera, and anterior chamber

*Excludes:* operations on cornea (11.0-11.99)

12.0 Removal of intraocular foreign body from anterior segment of eye

12.00 Removal of intraocular foreign body from anterior segment of eye, not otherwise specified

12.01 Removal of intraocular foreign body from anterior segment of eye with use of magnet

12.02 Removal of intraocular foreign body from anterior segment of eye without use of magnet

12.1 Iridotomy and simple iridectomy

*Excludes:* iridectomy associated with:
cataract extraction (13.11-13.69)
removal of lesion (12.41-12.42)
scleral fistulization (12.61-12.69)

12.11 Iridotomy with transfixion
12.12 Other iridotomy
   Corectomy
   Dissection of iris
   Iridotomy NOS

12.13 Excision of prolapsed iris

12.14 Other iridectomy
   Iridectomy (basal) (peripheral) (total)

12.2 Diagnostic procedures on iris, ciliary body, sclera, and anterior chamber

12.21 Diagnostic aspiration of anterior chamber of eye

12.22 Biopsy of iris

12.29 Other diagnostic procedures on iris, ciliary body, sclera, and anterior chamber

12.3 Iridoplasty and coreoplasty

12.31 Lysis of goniosynechiae
   Lysis of goniosynechiae by injection of air or liquid

12.32 Lysis of other anterior synechiae
   Lysis of anterior synechiae:
   NOS
   by injection of air or liquid

12.33 Lysis of posterior synechiae
   Lysis of iris adhesions NOS

12.34 Lysis of corneovitreal adhesions

12.35 Coreoplasty
   Needling of pupillary membrane

12.39 Other iridoplasty

12.4 Excision or destruction of lesion of iris and ciliary body

12.40 Removal of lesion of anterior segment of eye, not otherwise specified

12.41 Destruction of lesion of iris, nonexcisional
   Destruction of lesion of iris by:
   cauterization
   cryotherapy
   photocoagulation

12.42 Excision of lesion of iris
   Excludes: biopsy of iris (12.22)

12.43 Destruction of lesion of ciliary body, nonexcisional

12.44 Excision of lesion of ciliary body

12.5 Facilitation of intraocular circulation

12.51 Goniopuncture without goniotony

12.52 Goniotomy without goniopuncture

12.53 Goniotomy with goniopuncture

12.54 Trabeculotomy ab externo
12.55  Cyclodialysis
12.59  Other facilitation of intraocular circulation

12.6  Scleral fistulization
   *Excludes:* exploratory sclerotomy (12.89)
12.61  Trephination of sclera with iridectomy
12.62  Thermocauterization of sclera with iridectomy
12.63  Iridencleisis and iridotasis
12.64  Trabeculectomy ab externo
12.65  Other scleral fistulization with iridectomy
12.66  Postoperative revision of scleral fistulization procedure
   Revision of filtering bleb
   *Excludes:* repair of fistula (12.82)
12.69  Other fistulizing procedure

12.7  Other procedures for relief of elevated intraocular pressure
12.71  Cyclodiathermy
12.72  Cyclocryotherapy
12.73  Cyclophotocoagulation
12.74  Diminution of ciliary body, not otherwise specified
12.79  Other glaucoma procedures

12.8  Operations on sclera
   *Excludes:* those associated with:
   *retinal reattachment* (14.41-14.59)
   *scleral fistulization* (12.61-12.69)
12.81  Suture of laceration of sclera
   Suture of sclera with synchronous repair of conjunctiva
12.82  Repair of scleral fistula
   *Excludes:* postoperative revision of scleral fistulization procedure (12.66)
12.83  Revision of operative wound of anterior segment, not elsewhere classified
   *Excludes:* postoperative revision of scleral fistulization procedure (12.66)
12.84  Excision or destruction of lesion of sclera
12.85  Repair of scleral staphyloma with graft
12.86  Other repair of scleral staphyloma
12.87  Scleral reinforcement with graft
12.88  Other scleral reinforcement
12.89  Other operations on sclera
   Exploratory sclerotomy

12.9  Other operations on iris, ciliary body, and anterior chamber
12.91  Therapeutic evacuation of anterior chamber
   Paracentesis of anterior chamber
   *Excludes:* diagnostic aspiration (12.21)
12.92 Injection into anterior chamber
   Injection of:
   air into anterior chamber
   liquid into anterior chamber
   medication into anterior chamber

12.93 Removal or destruction of epithelial downgrowth from anterior chamber
   Excludes: that with iridectomy (12.41-12.42)

12.97 Other operations on iris
12.98 Other operations on ciliary body
12.99 Other operations on anterior chamber

13 Operations on lens

13.0 Removal of foreign body from lens
   Excludes: removal of pseudophakos (13.8)

13.00 Removal of foreign body from lens, not otherwise specified
13.01 Removal of foreign body from lens with use of magnet
13.02 Removal of foreign body from lens without use of magnet

13.1 Intracapsular extraction of lens
   Code also any synchronous insertion of pseudophakos (13.71)

13.11 Intracapsular extraction of lens by temporal inferior route

13.19 Other intracapsular extraction of lens
   Cataract extraction NOS
   Cryoextraction of lens
   Erysiphake extraction of cataract
   Extraction of lens NOS

13.2 Extracapsular extraction of lens by linear extraction technique
   Code also any synchronous insertion of pseudophakos (13.71)

13.3 Extracapsular extraction of lens by simple aspiration (and irrigation) technique
   Irrigation of traumatic cataract
   Code also any synchronous insertion of pseudophakos (13.71)

13.4 Extracapsular extraction of lens by fragmentation and aspiration technique
   Code also any synchronous insertion of pseudophakos (13.71)

13.41 Phacoemulsification and aspiration of cataract
13.42 Mechanical phacofragmentation and aspiration of cataract by posterior route
   Code also any synchronous vitrectomy (14.74)
13.43 Mechanical phacofragmentation and other aspiration of cataract

13.5 Other extracapsular extraction of lens
   Code also any synchronous insertion of pseudophakos (13.71)

13.51 Extracapsular extraction of lens by temporal inferior route
13.59 Other extracapsular extraction of lens

13.6 Other cataract extraction
Code also any synchronous insertion of pseudophakos (13.71)
13.64 Dissection of secondary membrane [after cataract]
13.65 Excision of secondary membrane [after cataract] Capsulectomy
13.66 Mechanical fragmentation of secondary membrane [after cataract]
13.69 Other cataract extraction

13.7 Insertion of prosthetic lens [pseudophakos]
Excludes: implantation of intraocular telescope prosthesis (13.91)
13.70 Insertion of pseudophakos, not otherwise specified
13.71 Insertion of intraocular lens prosthesis at time of cataract extraction, one-stage
   Code also synchronous extraction of cataract (13.11-13.69)
13.72 Secondary insertion of intraocular lens prosthesis

13.8 Removal of implanted lens
   Removal of pseudophakos

13.9 Other operations on lens
13.90 Operation on lens, Not Elsewhere Classified
13.91 Implantation of intraocular telescope prosthesis
   Implantable miniature telescope
   Includes removal of lens, any method
   Excludes: secondary insertion of ocular implant (16.61)

14 Operations on retina, choroid, vitreous, and posterior chamber

14.0 Removal of foreign body from posterior segment of eye
Excludes: removal of surgically implanted material (14.6)
14.00 Removal of foreign body from posterior segment of eye, not otherwise specified
14.01 Removal of foreign body from posterior segment of eye with use of magnet
14.02 Removal of foreign body from posterior segment of eye without use of magnet

14.1 Diagnostic procedures on retina, choroid, vitreous, and posterior chamber
14.11 Diagnostic aspiration of vitreous
14.19 Other diagnostic procedures on retina, choroid, vitreous, and posterior chamber
14.2 Destruction of lesion of retina and choroid
Includes: destruction of chorioretinopathy or isolated chorioretinal lesion
Excludes: that for repair of retina (14.31-14.59)
14.21 Destruction of chorioretinal lesion by diathermy
14.22 Destruction of chorioretinal lesion by cryotherapy
14.23 Destruction of chorioretinal lesion by xenon arc photocoagulation
14.24 Destruction of chorioretinal lesion by laser photocoagulation
14.25 Destruction of chorioretinal lesion by photocoagulation of unspecified type
14.26 Destruction of chorioretinal lesion by radiation therapy
14.27 Destruction of chorioretinal lesion by implantation of radiation source
14.29 Other destruction of chorioretinal lesion
14.29 Other destruction of lesion of retina and choroid NOS

14.3 Repair of retinal tear
Includes: repair of retinal defect
Excludes: repair of retinal detachment (14.41-14.59)
14.31 Repair of retinal tear by diathermy
14.32 Repair of retinal tear by cryotherapy
14.33 Repair of retinal tear by xenon arc photocoagulation
14.34 Repair of retinal tear by laser photocoagulation
14.35 Repair of retinal tear by photocoagulation of unspecified type
14.39 Other repair of retinal tear

14.4 Repair of retinal detachment with scleral buckling and implant
14.41 Scleral buckling with implant
14.49 Other scleral buckling
Scleral buckling with:
   air tamponade
   resection of sclera
   vitrectomy

14.5 Other repair of retinal detachment
Includes: that with drainage
14.51 Repair of retinal detachment with diathermy
14.52 Repair of retinal detachment with cryotherapy
14.53 Repair of retinal detachment with xenon arc photocoagulation
14.54 Repair of retinal detachment with laser photocoagulation
14.55 Repair of retinal detachment with photocoagulation of unspecified type
14.59 Other

14.6 Removal of surgically implanted material from posterior segment of eye
14.7 Operations on vitreous
   14.71 Removal of vitreous, anterior approach
       Open sky technique
       Removal of vitreous, anterior approach (with replacement)
   14.72 Other removal of vitreous
       Aspiration of vitreous by posterior sclerotomy
   14.73 Mechanical vitrectomy by anterior approach
   14.74 Other mechanical vitrectomy
       Posterior approach
   14.75 Injection of vitreous substitute
       Excludes: that associated with removal (14.71-14.72)
   14.79 Other operations on vitreous

14.9 Other operations on retina, choroid, and posterior chamber

15 Operations on extraocular muscles

15.0 Diagnostic procedures on extraocular muscles or tendons
   15.01 Biopsy of extraocular muscle or tendon
   15.09 Other diagnostic procedures on extraocular muscles and tendons

15.1 Operations on one extraocular muscle involving temporary
detachment from globe
   15.11 Recession of one extraocular muscle
   15.12 Advancement of one extraocular muscle
   15.13 Resection of one extraocular muscle
   15.19 Other operations on one extraocular muscle involving temporary
detachment from globe
       Excludes: transposition of muscle (15.5)

15.2 Other operations on one extraocular muscle
   15.21 Lengthening procedure on one extraocular muscle
   15.22 Shortening procedure on one extraocular muscle
   15.29 Other

15.3 Operations on two or more extraocular muscles involving
temporary detachment from globe, one or both eyes

15.4 Other operations on two or more extraocular muscles, one or
both eyes

15.5 Transposition of extraocular muscles
       Excludes: that for correction of ptosis (08.31-08.36)

15.6 Revision of extraocular muscle surgery
15.7 Repair of injury of extraocular muscle  
   Freeing of entrapped extraocular muscle  
   Lysis of adhesions of extraocular muscle  
   Repair of laceration of extraocular muscle, tendon, or Tenon's capsule

15.9 Other operations on extraocular muscles and tendons

16 Operations on orbit and eyeball  
   Excludes: reduction of fracture of orbit (76.78-76.79)

16.0 Orbitotomy  
   16.01 Orbitotomy with bone flap  
      Orbitotomy with lateral approach
   16.02 Orbitotomy with insertion of orbital implant  
      Excludes: that with bone flap (16.01)
   16.09 Other orbitotomy

16.1 Removal of penetrating foreign body from eye, not otherwise specified  
   Excludes: removal of nonpenetrating foreign body (98.21)

16.2 Diagnostic procedures on orbit and eyeball
   16.21 Ophthalmoscopy
   16.22 Diagnostic aspiration of orbit
   16.23 Biopsy of eyeball and orbit
   16.29 Other diagnostic procedures on orbit and eyeball  
      Excludes: examination of form and structure of eye (95.11-95.16)  
      general and subjective eye examination (95.01-95.09)  
      microscopic examination of specimen from eye (90.21-90.29)  
      objective functional tests of eye (95.21-95.26)  
      ocular thermography (88.82)  
      tonometry (89.11)  
      x-ray of orbit (87.14, 87.16)

16.3 Evisceration of eyeball
   16.31 Removal of ocular contents with synchronous implant into scleral shell
   16.39 Other evisceration of eyeball

16.4 Enucleation of eyeball
   16.41 Enucleation of eyeball with synchronous implant into Tenon's capsule with attachment of muscles  
      Integrated implant of eyeball
   16.42 Enucleation of eyeball with other synchronous implant
   16.49 Other enucleation of eyeball  
      Removal of eyeball NOS

16.5 Exenteration of orbital contents
   16.51 Exenteration of orbit with removal of adjacent structures  
      Radical orbitomaxillectomy
16.52 Exenteration of orbit with therapeutic removal of orbital bone
16.59 Other exenteration of orbit
  Evisceration of orbit NOS
  Exenteration of orbit with temporalis muscle transplant

16.6 Secondary procedures after removal of eyeball

  *Excludes:* that with synchronous:
  enucleation of eyeball (16.41-16.42)
  evisceration of eyeball (16.31)

16.61 Secondary insertion of ocular implant
16.62 Revision and reinsertion of ocular implant
16.63 Revision of enucleation socket with graft
16.64 Other revision of enucleation socket
16.65 Secondary graft to exenteration cavity
16.66 Other revision of exenteration cavity
16.69 Other secondary procedures after removal of eyeball

16.7 Removal of ocular or orbital implant
16.71 Removal of ocular implant
16.72 Removal of orbital implant

16.8 Repair of injury of eyeball and orbit
16.81 Repair of wound of orbit
  *Excludes:* reduction of orbital fracture (76.78-76.79)
  repair of extraocular muscles (15.7)
16.82 Repair of rupture of eyeball
  Repair of multiple structures of eye
  *Excludes:* repair of laceration of:
  cornea (11.51-11.59)
  sclera (12.81)
16.89 Other repair of injury of eyeball or orbit

16.9 Other operations on orbit and eyeball

  *Excludes:* irrigation of eye (96.51)
  prescription and fitting of low vision aids (95.31-95.33)
  removal of:
  eye prosthesis NEC (97.31)
  nonpenetrating foreign body from eye without incision (98.21)

16.91 Retrobulbar injection of therapeutic agent
  *Excludes:* injection of radiographic contrast material (87.14)
  opticoocular injection (12.79)
16.92 Excision of lesion of orbit
  *Excludes:* biopsy of orbit (16.23)
16.93 Excision of lesion of eye, unspecified structure
  *Excludes:* biopsy of eye NOS (16.23)
16.98 Other operations on orbit
16.99 Other operations on eyeball
3A OTHER MISCELLANEOUS DIAGNOSTIC AND THERAPEUTIC PROCEDURES

17 Other miscellaneous procedures

17.1 Laparoscopic unilateral repair of inguinal hernia

Excludes: other and open unilateral repair of hernia (53.00 - 53.05)

17.11 Laparoscopic repair of direct inguinal hernia with graft or prosthesis

Laparoscopic repair of direct and indirect inguinal hernia with graft or prosthesis

17.12 Laparoscopic repair of indirect inguinal hernia with graft or prosthesis

17.13 Laparoscopic repair of inguinal hernia with graft or prosthesis, not otherwise specified

17.2 Laparoscopic bilateral repair of inguinal hernia

Excludes: other and open bilateral repair of hernia (53.10 - 53.17)

17.21 Laparoscopic bilateral repair of direct inguinal hernia with graft or prosthesis

17.22 Laparoscopic bilateral repair of indirect inguinal hernia with graft or prosthesis

17.23 Laparoscopic bilateral repair of inguinal hernia, one direct and one indirect, with graft or prosthesis

17.24 Laparoscopic bilateral repair of inguinal hernia with graft or prosthesis, not otherwise specified

17.3 Laparoscopic partial excision of large intestine

Excludes: other and open partial excision of large intestine (45.71 - 45.79)

17.31 Laparoscopic multiple segmental resection of large intestine

17.32 Laparoscopic cecectomy

17.33 Laparoscopic right hemicolecctomy

17.34 Laparoscopic resection of transverse colon

17.35 Laparoscopic left hemicolecctomy

17.36 Laparoscopic sigmoidectomy

17.39 Other laparoscopic partial excision of large intestine

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.
<table>
<thead>
<tr>
<th>Code</th>
<th>Procedure Description</th>
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| 17.41 | **Open robotic assisted procedure**<sup>+</sup>  
Robotic assistance in open procedure |
| 17.42 | **Laparoscopic robotic assisted procedure**<sup>+</sup>  
Robotic assistance in laparoscopic procedure |
| 17.43 | **Percutaneous robotic assisted procedure**<sup>+</sup>  
Robotic assistance in percutaneous procedure |
| 17.44 | **Endoscopic robotic assisted procedure**<sup>+</sup>  
Robotic assistance in endoscopic procedure |
| 17.45 | **Thoracoscopic robotic assisted procedure**<sup>+</sup>  
Robotic assistance in thoracoscopic procedure |
| 17.49 | **Other and unspecified robotic assisted procedure**<sup>+</sup>  
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)

### 17.5 Additional cardiovascular procedures

#### 17.51 Implantation of rechargeable cardiac contractility modulation [CCM], total system<sup>+</sup>  
- **Note:** Device testing during procedure --*omit code*  
  Implantation of CCM system includes formation of pocket, transvenous leads, including placement of leads, placement of catheter into left ventricle, intraoperative procedures for evaluation of lead signals, obtaining sensing threshold measurements, obtaining defibrillator threshold measurements.  

Includes implantation of device with removal of existing device  

Code also any concomitant:  
- coronary bypass (36.10 – 36.19)  
- extracorporeal circulation (39.61)  
- insertion or replacement of automatic cardioverter/defibrillator, total system [AICD] (37.94)  

**Excludes:** implantation of CCM pulse generator only (17.52)

#### 17.52 Implantation or replacement of cardiac contractility modulation [CCM] rechargeable pulse generator only<sup>+</sup>  
- **Note:** Device testing during procedure --*omit code*  
  Implantation of CCM device with removal of any existing CCM device  

Code also any concomitant:  
- revision of device pocket (37.79)  
- revision of lead [electrode] (37.75)
17.6 Laser interstitial thermal therapy [LITT] under guidance
Focused laser interstitial thermal therapy [f-LITT] under MRI guidance
MRI-guided LITT

17.61 Laser interstitial thermal therapy [LITT] of lesion or tissue of brain under guidance
Focused laser interstitial thermal therapy [f-LITT] under MRI guidance
MRI-guided LITT of lesion or tissue of brain

Excludes: laser interstitial thermal therapy [LITT] of lesion of tissue of head under guidance (17.62)

17.62 Laser interstitial thermal therapy [LITT] of lesion or tissue of head and neck under guidance
Focused laser interstitial thermal therapy [f-LITT] under MRI guidance
MRI-guided LITT of lesion or tissue of head and neck

Excludes: laser interstitial thermal therapy [LITT] of lesion or tissue of brain under guidance (17.61)

17.63 Laser interstitial thermal therapy [LITT] of lesion or tissue of liver under guidance
Focused laser interstitial thermal therapy [f-LITT] under MRI guidance
MRI-guided LITT of lesion or tissue of liver

17.69 Laser interstitial thermal therapy [LITT] of lesion or tissue of other and unspecified site under guidance
Focused laser interstitial thermal therapy [f-LITT] under MRI guidance
MRI-guided LITT of lesion or tissue of breast
MRI-guided LITT of lesion or tissue of lung
MRI-guided LITT of lesion or tissue of prostate

Excludes: laser interstitial thermal therapy [LITT] of lesion or tissue of brain under guidance (17.61)
laser interstitial thermal therapy [LITT] of lesion or tissue of head and neck under guidance (17.62)
laser interstitial thermal therapy [LITT] of lesion or tissue of liver under guidance (17.63)

17.7 Other diagnostic and therapeutic procedures

17.70 Intravenous infusion of clofarabine

Excludes: injection or infusion of cancer chemotherapeutic substance (99.25)
4. OPERATIONS ON THE EAR (18-20)

18 Operations on external ear
Includes: operations on:
- external auditory canal
- skin and cartilage of:
  - auricle
  - meatus

18.0 Incision of external ear
Excludes: removal of intraluminal foreign body (98.11)
18.01 Piercing of ear lobe
  Piercing of pinna
18.02 Incision of external auditory canal
18.09 Other incision of external ear

18.1 Diagnostic procedures on external ear
18.11 Otoscopy
18.12 Biopsy of external ear
18.19 Other diagnostic procedures on external ear
  Excludes: microscopic examination of specimen from ear (90.31-90.39)

18.2 Excision or destruction of lesion of external ear
18.21 Excision of preauricular sinus
  Radical excision of preauricular sinus or cyst
  Excludes: excision of preauricular remnant [appendage] (18.29)
18.29 Excision or destruction of other lesion of external ear
  Cauterization of external ear
  Coagulation of external ear
  Cryosurgery of external ear
  Curettage of external ear
  Electrocoagulation of external ear
  Enucleation of external ear
  Excision of:
    - exostosis of external auditory canal
    - preauricular remnant [appendage]
    - Partial excision of ear
  Excludes: biopsy of external ear (18.12)
  radical excision of lesion (18.31)
  removal of cerumen (96.52)

18.3 Other excision of external ear
  Excludes: biopsy of external ear (18.12)
18.31 Radical excision of lesion of external ear
  Excludes: radical excision of preauricular sinus (18.21)
18.39 Other
  Amputation of external ear
  Excludes: excision of lesion (18.21-18.29, 18.31)
18.4 Suture of laceration of external ear

18.5 Surgical correction of prominent ear
   Ear:
   pinning
   setback

18.6 Reconstruction of external auditory canal
   Canaloplasty of external auditory meatus
   Construction [reconstruction] of external meatus of ear:
   osseous portion
   skin-lined portion (with skin graft)

18.7 Other plastic repair of external ear
   18.71 Construction of auricle of ear
      Prosthetic appliance for absent ear
      Reconstruction:
      auricle
      ear
   18.72 Reattachment of amputated ear
   18.79 Other plastic repair of external ear
      Otoplasty NOS
      Postauricular skin graft
      Repair of lop ear

18.9 Other operations on external ear
   Excludes: irrigation of ear (96.52)
   packing of external auditory canal (96.11)
   removal of:
      cerumen (96.52)
      foreign body (without incision) (98.11)

19 Reconstructive operations on middle ear

19.0 Stapes mobilization
   Division, otosclerotic:
   material
   process
   Remobilization of stapes
   Stapediolysis
   Transcrural stapes mobilization
   Excludes: that with synchronous stapedectomy (19.11-19.19)

19.1 Stapedectomy
   Excludes: revision of previous stapedectomy (19.21-19.29)
   stapes mobilization only (19.0)
   19.11 Stapedectomy with incus replacement
      Stapedectomy with incus:
      homograft
      prosthesis
   19.19 Other stapedectomy
19.2 Revision of stapedectomy
   19.21 Revision of stapedectomy with incus replacement
   19.29 Other revision of stapedectomy

19.3 Other operations on ossicular chain
   Incudectomy NOS
   Ossiculectomy NOS
   Reconstruction of ossicles, second stage

19.4 Myringoplasty
   Epitympanic, type I
   Myringoplasty by:
      cauterization
      graft
   Tympanoplasty (type I)

19.5 Other tympanoplasty
   19.52 Type II tympanoplasty
      Closure of perforation with graft against incus or malleus
   19.53 Type III tympanoplasty
      Graft placed in contact with mobile and intact stapes
   19.54 Type IV tympanoplasty
      Mobile footplate left exposed with air pocket between round window
      and graft
   19.55 Type V tympanoplasty
      Fenestra in horizontal semicircular canal covered by graft

19.6 Revision of tympanoplasty

19.9 Other repair of middle ear
   Closure of mastoid fistula
   Mastoid myoplasty
   Obliteration of tympanomastoid cavity

20 Other operations on middle and inner ear

20.0 Myringotomy
   20.01 Myringotomy with insertion of tube
      Myringostomy
   20.09 Other myringotomy
      Aspiration of middle ear NOS

20.1 Removal of tympanostomy tube

20.2 Incision of mastoid and middle ear
   20.21 Incision of mastoid
   20.22 Incision of petrous pyramid air cells
   20.23 Incision of middle ear
      Atticotomy
      Division of tympanum
      Lysis of adhesions of middle ear
Excludes: division of otosclerotic process (19.0)
stapediolyis (19.0)
that with stapedectomy (19.11-19.19)

20.3 Diagnostic procedures on middle and inner ear

20.31 Electrocochleography

20.32 Biopsy of middle and inner ear

20.39 Other diagnostic procedures on middle and inner ear

Excludes: auditory and vestibular function tests (89.13, 95.41-95.49)
microscopic examination of specimen from ear (90.31-90.39)

20.4 Mastoidectomy

Code also any:
  skin graft (18.79)
tympanoplasty (19.4-19.55)

Excludes: that with implantation of cochlear prosthetic device (20.96-20.98)

20.41 Simple mastoidectomy

20.42 Radical mastoidectomy

20.49 Other mastoidectomy
  Atticoantrostomy
  Mastoidectomy: NOS
  modified radical

20.5 Other excision of middle ear

Excludes: that with synchronous mastoidectomy (20.41-20.49)

20.51 Excision of lesion of middle ear

Excludes: biopsy of middle ear (20.32)

20.59 Other
  Apicectomy of petrous pyramid
  Tympanectomy

20.6 Fenestration of inner ear

20.61 Fenestration of inner ear (initial)
  Fenestration of:
  labyrinth with graft (skin) (vein)
  semicircular canals with graft (skin) (vein)
  vestibule with graft (skin) (vein)

Excludes: that with tympanoplasty, type V (19.55)

20.62 Revision of fenestration of inner ear

20.7 Incision, excision, and destruction of inner ear

20.71 Endolymphatic shunt

20.72 Injection into inner ear
  Destruction by injection (alcohol):
  inner ear
  semicircular canals
  vestibule
20.79 Other incision, excision, and destruction of inner ear
- Decompression of labyrinth
- Drainage of inner ear
- Fistulization:
  - endolymphatic sac
  - labyrinth
- Incision of endolymphatic sac
- Labyrinthectomy (transtympanic)
- Opening of bony labyrinth
- Perilymphatic tap

_Excludes:_ biopsy of inner ear (20.32)

20.8 Operations on Eustachian tube
- Catheterization of Eustachian tube
- Inflation of Eustachian tube
- Injection (Teflon paste) of Eustachian tube
- Insufflation (boric acid-salicylic acid) Intubation of Eustachian tube
- Poltitzerization of Eustachian tube

20.9 Other operations on inner and middle ear

20.91 Tympanosympathectomy

20.92 Revision of mastoidectomy

20.93 Repair of oval and round windows
- Closure of fistula:
  - oval window
  - perilymph
  - round window

20.94 Injection of tympanum

20.95 Implantation of electromagnetic hearing device
- Bone conduction hearing device

_Excludes:_ cochlear prosthetic device (20.96-20.98)

20.96 Implantation or replacement of cochlear prosthetic device, not otherwise specified
- Implantation of receiver (within skull) and insertion of electrode(s) in the cochlea
- Includes: mastoidectomy

_Excludes:_ electromagnetic hearing device (20.95)

20.97 Implantation or replacement of cochlear prosthetic device, single channel
- Implantation of receiver (within skull) and insertion of electrode in the cochlea
- Includes: mastoidectomy

_Excludes:_ electromagnetic hearing device (20.95)

20.98 Implantation or replacement of cochlear prosthetic device, multiple channel
- Implantation of receiver (within skull) and insertion of electrodes in the cochlea
- Includes: mastoidectomy

_Excludes:_ electromagnetic hearing device (20.95)
20.99 Other operations on middle and inner ear ®
Repair or removal of cochlear prosthetic device (receiver) (electrode)
Attachment of percutaneous abutment (screw) for prosthetic device

Excludes: adjustment (external components) of cochlear prosthetic
device (95.49)
fitting of hearing aid (95.48)
21  Operations on nose
   Includes: operations on:
       bone of nose
       skin of nose

21.0 Control of epistaxis
   21.00 Control of epistaxis, not otherwise specified
   21.01 Control of epistaxis by anterior nasal packing
   21.02 Control of epistaxis by posterior (and anterior) packing
   21.03 Control of epistaxis by cauterization (and packing)
   21.04 Control of epistaxis by ligation of ethmoidal arteries
   21.05 Control of epistaxis by (transantral) ligation of the maxillary artery
   21.06 Control of epistaxis by ligation of the external carotid artery
   21.07 Control of epistaxis by excision of nasal mucosa and skin grafting
       of septum and lateral nasal wall
   21.09 Control of epistaxis by other means

21.1 Incision of nose
       Chondrotomy
       Incision of skin of nose
       Nasal septotomy

21.2 Diagnostic procedures on nose
   21.21 Rhinoscopy
   21.22 Biopsy of nose
   21.29 Other diagnostic procedures on nose
       Excludes: microscopic examination of specimen from nose (90.31-90.39)
       nasal:
       function study (89.12)
       x-ray (87.16)
       rhinomanometry (89.12)

21.3 Local excision or destruction of lesion of nose
       Excludes: biopsy of nose (21.22)
       nasal fistulectomy (21.82)
   21.30 Excision or destruction of lesion of nose, not otherwise specified
   21.31 Local excision or destruction of intranasal lesion
       Nasal polypectomy
   21.32 Local excision or destruction of other lesion of nose

21.4 Resection of nose
       Amputation of nose

21.5 Submucous resection of nasal septum

21.6 Turbinectomy
21.61 Turbinectomy by diathermy or cryosurgery
21.62 Fracture of the turbinates
21.69 Other turbinectomy
   Excludes: turbinectomy associated with sinusectomy (22.31-22.39, 22.42, 22.60-22.64)

21.7 Reduction of nasal fracture
21.71 Closed reduction of nasal fracture
21.72 Open reduction of nasal fracture

21.8 Repair and plastic operations on the nose
21.81 Suture of laceration of nose
21.82 Closure of nasal fistula
   Nasolabial fistulectomy
   Nasopharyngeal fistulectomy
   Oronasal fistulectomy
21.83 Total nasal reconstruction
   Reconstruction of nose with:
   arm flap
   forehead flap
21.84 Revision rhinoplasty
   Rhinoseptoplasty
   Twisted nose rhinoplasty
21.85 Augmentation rhinoplasty
   Augmentation rhinoplasty with:
   graft
   synthetic implant
21.86 Limited rhinoplasty
   Plastic repair of nasolabial flaps
   Tip rhinoplasty
21.87 Other rhinoplasty
   Rhinoplasty NOS
21.88 Other septoplasty
   Crushing of nasal septum
   Repair of septal perforation
   Excludes: septoplasty associated with submucous resection of septum (21.5)
21.89 Other repair and plastic operations on nose
   Reattachment of amputated nose

21.9 Other operations on nose
21.91 Lysis of adhesions of nose
   Posterior nasal scrub
21.99 Other
   Excludes: dilation of frontonasal duct (96.21)
             irrigation of nasal passages (96.53)
             removal of:
                intraluminal foreign body without incision (98.12)
                nasal packing (97.32)
             replacement of nasal packing (97.21)

22 Operations on nasal sinuses

22.0 Aspiration and lavage of nasal sinus
   22.00 Aspiration and lavage of nasal sinus, not otherwise specified
   22.01 Puncture of nasal sinus for aspiration or lavage
   22.02 Aspiration or lavage of nasal sinus through natural ostium

22.1 Diagnostic procedures on nasal sinus
   22.11 Closed [endoscopic] [needle] biopsy of nasal sinus
   22.12 Open biopsy of nasal sinus
   22.19 Other diagnostic procedures on nasal sinuses
       Endoscopy without biopsy
       Excludes: transillumination of sinus (89.35)
                  x-ray of sinus (87.15-87.16)

22.2 Intranasal antrotomy
   Excludes: antrotomy with external approach (22.31-22.39)

22.3 External maxillary antrotomy
   22.31 Radical maxillary antrotomy
       Removal of lining membrane of maxillary sinus using
       Caldwell-Luc approach
   22.39 Other external maxillary antrotomy
       Exploration of maxillary antrum with Caldwell-Luc approach

22.4 Frontal sinusotomy and sinusectomy
   22.41 Frontal sinusotomy
   22.42 Frontal sinusectomy
       Excision of lesion of frontal sinus
       Obliteration of frontal sinus (with fat)
       Excludes: biopsy of nasal sinus (22.11-22.12)

22.5 Other nasal sinusotomy
   22.50 Sinusotomy, not otherwise specified
   22.51 Ethmoidotomy
   22.52 Sphenoidotomy
   22.53 Incision of multiple nasal sinuses
22.6 Other nasal sinusectomy
Includes: that with incidental turbinectomy

Excludes: biopsy of nasal sinus (22.11-22.12)

22.60 Sinusectomy, not otherwise specified
22.61 Excision of lesion of maxillary sinus with Caldwell- Luc approach
22.62 Excision of lesion of maxillary sinus with other approach
22.63 Ethmoidectomy
22.64 Sphenoidectomy

22.7 Repair of nasal sinus

22.71 Closure of nasal sinus fistula
  Repair of oro- antral fistula
22.79 Other repair of nasal sinus
  Reconstruction of frontonasal duct
  Repair of bone of accessory sinus

22.9 Other operations on nasal sinuses

Exteriorization of maxillary sinus
Fistulization of sinus

Excludes: dilation of frontonasal duct (96.21)

23 Removal and restoration of teeth

23.0 Forceps extraction of tooth

23.01 Extraction of deciduous tooth
23.09 Extraction of other tooth
  Extraction of tooth NOS

23.1 Surgical removal of tooth

23.11 Removal of residual root
23.19 Other surgical extraction of tooth
  Odontectomy NOS
  Removal of impacted tooth
  Tooth extraction with elevation of mucoperiosteal flap

23.2 Restoration of tooth by filling

23.3 Restoration of tooth by inlay

23.4 Other dental restoration

23.41 Application of crown
23.42 Insertion of fixed bridge
23.43 Insertion of removable bridge
23.49 Other

23.5 Implantation of tooth

23.6 Prosthetic dental implant
Endosseous dental implant

23.7 Apicoectomy and root canal therapy
   23.70 Root canal, not otherwise specified
   23.71 Root canal therapy with irrigation
   23.72 Root canal therapy with apicoectomy
   23.73 Apicoectomy

24 Other operations on teeth, gums, and alveoli

24.0 Incision of gum or alveolar bone
   Apical alveolotomy

24.1 Diagnostic procedures on teeth, gums, and alveoli
   24.11 Biopsy of gum
   24.12 Biopsy of alveolus
   24.19 Other diagnostic procedures on teeth, gums, and alveoli
     Excludes: dental:
     examination (89.31)
     x-ray:
     full-mouth (87.11)
     other (87.12)
     microscopic examination of dental specimen (90.81-90.89)

24.2 Gingivoplasty
   Gingivoplasty with bone or soft tissue graft

24.3 Other operations on gum
   24.31 Excision of lesion or tissue of gum
     Excludes: biopsy of gum (24.11)
     excision of odontogenic lesion (24.4)
   24.32 Suture of laceration of gum
   24.39 Other

24.4 Excision of dental lesion of jaw
   Excision of odontogenic lesion

24.5 Alveoloplasty
   Alveolecctomy (intraradicular) (intraseptal) (radical) (simple) (with graft
   or implant)
   Excludes: biopsy of alveolus (24.12)
   en bloc resection of alveolar process and palate (27.32)

24.6 Exposure of tooth
24.7  **Application of orthodontic appliance**
Application, insertion, or fitting of:
- arch bars
- orthodontic obturator
- orthodontic wiring
- periodontal splint

*Excludes*: nonorthodontic dental wiring (93.55)

24.8  **Other orthodontic operation**
Closure of diastema (alveolar) (dental)
- Occlusal adjustment
- Removal of arch bars
- Repair of dental arch

*Excludes*: removal of nonorthodontic wiring (97.33)

24.9  **Other dental operations**
24.9.1  **Extension or deepening of buccolabial or lingual sulcus**
24.9.9  **Other**

*Excludes*: dental:
- debridement (96.54)
- examination (89.31)
- prophylaxis (96.54)
- scaling and polishing (96.54)
- wiring (93.55)
- fitting of dental appliance [denture] (99.97)
- microscopic examination of dental specimen (90.81-90.89)
- removal of dental:
  - packing (97.34)
  - prosthesis (97.35)
  - wiring (97.33)
- replacement of dental packing (97.22)

25  **Operations on tongue**
25.0  **Diagnostic procedures on tongue**
25.0.1  **Closed [needle] biopsy of tongue**
25.0.2  **Open biopsy of tongue**
  - Wedge biopsy
25.0.9  **Other diagnostic procedures on tongue**

25.1  **Excision or destruction of lesion or tissue of tongue**

*Excludes*: biopsy of tongue (25.01-25.02)
- frenumectomy:
  - labial (27.41)
  - lingual (25.92)

25.2  **Partial glossectomy**
25.3  **Complete glossectomy**
  - Glossectomy NOS
  - Code also any neck dissection (40.40-40.42)
25.4 Radical glossectomy
- Code also any:
  - neck dissection (40.40-40.42)
  - tracheostomy (31.1-31.29)

25.5 Repair of tongue and glossoplasty
- 25.51 Suture of laceration of tongue
- 25.59 Other repair and plastic operations on tongue
  - Fascial sling of tongue
  - Fusion of tongue (to lip)
  - Graft of mucosa or skin to tongue
  - Excludes: lysis of adhesions of tongue (25.93)

25.9 Other operations on tongue
- 25.91 Lingual frenotomy
  - Excludes: labial frenotomy (27.91)
- 25.92 Lingual frenectomy
  - Excludes: labial frenectomy (27.41)
- 25.93 Lysis of adhesions of tongue
- 25.94 Other glossotomy
- 25.99 Other

26 Operations on salivary glands and ducts
- Includes: operations on:
  - lesser salivary gland and duct
  - parotid gland and duct
  - sublingual gland and duct
  - submaxillary gland and duct
- Code also any neck dissection (40.40-40.42)

26.0 Incision of salivary gland or duct

26.1 Diagnostic procedures on salivary glands and ducts
- 26.11 Closed [needle] biopsy of salivary gland or duct
- 26.12 Open biopsy of salivary gland or duct
- 26.19 Other diagnostic procedures on salivary glands and ducts
  - Excludes: x-ray of salivary gland (87.09)

26.2 Excision of lesion of salivary gland
- 26.21 Marsupialization of salivary gland cyst
- 26.29 Other excision of salivary gland lesion
  - Excludes: biopsy of salivary gland (26.11-26.12)
  - salivary fistulectomy (26.42)
26.3  Sialoadenectomy
   26.30  Sialoadenectomy, not otherwise specified
   26.31  Partial sialoadenectomy
   26.32  Complete sialoadenectomy
          En bloc excision of salivary gland lesion
          Radical sialoadenectomy

26.4  Repair of salivary gland or duct
   26.41  Suture of laceration of salivary gland
   26.42  Closure of salivary fistula
   26.49  Other repair and plastic operations on salivary gland or duct
          Fistulization of salivary gland
          Plastic repair of salivary gland or duct NOS
          Transplantation of salivary duct opening

26.9  Other operations on salivary gland or duct
   26.91  Probing of salivary duct
   26.99  Other

27  Other operations on mouth and face
   Includes: operations on:
           lips
           palate
           soft tissue of face and mouth, except tongue and gingiva
   Excludes: operations on:
           gingiva (24.0-24.99)
           tongue (25.01-25.99)

27.0  Drainage of face and floor of mouth
   Drainage of:
   facial region (abscess)
   fascial compartment of face
   Ludwig's angina
   Excludes: drainage of thyroglossal tract (06.09)

27.1  Incision of palate

27.2  Diagnostic procedures on oral cavity
   27.21  Biopsy of bony palate
   27.22  Biopsy of uvula and soft palate
   27.23  Biopsy of lip
   27.24  Biopsy of mouth, unspecified structure
   27.29  Other diagnostic procedures on oral cavity
          Excludes: soft tissue x-ray (87.09)
27.3 Excision of lesion or tissue of bony palate
   27.31 Local excision or destruction of lesion or tissue of bony palate
      Local excision or destruction of palate by:
      cautery
      chemotherapy
      cryotherapy
      Excludes: biopsy of bony palate (27.21)
   27.32 Wide excision or destruction of lesion or tissue of bony palate
      En bloc resection of alveolar process and palate

27.4 Excision of other parts of mouth
   27.41 Labial frenectomy
      Excludes: division of labial frenum (27.91)
   27.42 Wide excision of lesion of lip
   27.43 Other excision of lesion or tissue of lip
   27.49 Other excision of mouth
      Excludes: biopsy of mouth NOS (27.24)
      excision of lesion of:
      palate (27.31-27.32)
      tongue (25.1)
      uvula (27.72)
      fistulectomy of mouth (27.53)
      frenectomy of:
      lip (27.41)
      tongue (25.92)

27.5 Plastic repair of lip and mouth
   Excludes: palatoplasty (27.61-27.69)
   27.51 Suture of laceration of lip
   27.52 Suture of laceration of other part of mouth
   27.53 Closure of fistula of mouth
      Excludes: fistulectomy:
      nasolabial (21.82)
      oro-antral (22.71)
      oronasal (21.82)
   27.54 Repair of cleft lip
   27.55 Full-thickness skin graft to lip and mouth
   27.56 Other skin graft to lip and mouth
   27.57 Attachment of pedicle or flap graft to lip and mouth
   27.59 Other plastic repair of mouth

27.6 Palatoplasty
   27.61 Suture of laceration of palate
   27.62 Correction of cleft palate
      Correction of cleft palate by push-back operation
      Excludes: revision of cleft palate repair (27.63)
27.63 Revision of cleft palate repair
   Secondary:
      attachment of pharyngeal flap
      lengthening of palate
27.64 Insertion of palatal implant
27.69 Other plastic repair of palate
   Code also any insertion of palatal implant (27.64)
   Excludes: fistulectomy of mouth (27.53)

27.7 Operations on uvula
27.71 Incision of uvula
27.72 Excision of uvula
   Excludes: biopsy of uvula (27.22)
27.73 Repair of uvula
   Excludes: that with synchronous cleft palate repair (27.62)
      uranostaphylorrhaphy (27.62)
27.79 Other operations on uvula

27.9 Other operations on mouth and face
27.91 Labial frenotomy
   Division of labial frenum
   Excludes: lingual frenotomy (25.91)
27.92 Incision of mouth, unspecified structure
   Excludes: incision of:
      gum (24.0)
      palate (27.1)
      salivary gland or duct (26.0)
      tongue (25.94)
      uvula (27.71)
27.99 Other operations on oral cavity
   Graft of buccal sulcus
   Excludes: removal of:
      intraluminal foreign body (98.01)
      penetrating foreign body from mouth without incision (98.22)
28  Operations on tonsils and adenoids

28.0 Incision and drainage of tonsil and peritonsillar structures
   Drainage (oral) (transcervical) of:
   parapharyngeal abscess
   peritonsillar abscess
   retropharyngeal abscess
   tonsillar abscess

28.1 Diagnostic procedures on tonsils and adenoids
   28.11 Biopsy of tonsils and adenoids
   28.19 Other diagnostic procedures on tonsils and adenoids
      Excludes: soft tissue x-ray (87.09)

28.2 Tonsillectomy without adenoidectomy

28.3 Tonsillectomy with adenoidectomy

28.4 Excision of tonsil tag

28.5 Excision of lingual tonsil

28.6 Adenoidectomy without tonsillectomy
   Excision of adenoid tag

28.7 Control of hemorrhage after tonsillectomy and adenoidectomy

28.9 Other operations on tonsils and adenoids
   28.91 Removal of foreign body from tonsil and adenoid by incision
      Excludes: that without incision (98.13)
   28.92 Excision of lesion of tonsil and adenoid
      Excludes: biopsy of tonsil and adenoid (28.11)
   28.99 Other

29  Operations on pharynx

   Includes: operations on:
   hypopharynx
   nasopharynx
   oropharynx
   pharyngeal pouch
   pyriform sinus

29.0 Pharyngotomy
   Drainage of pharyngeal bursa
   Excludes: incision and drainage of retropharyngeal abscess (28.0)
   removal of foreign body (without incision) (98.13)

29.1 Diagnostic procedures on pharynx
   29.11 Pharyngoscopy
   29.12 Pharyngeal biopsy
      Biopsy of supraglottic mass
29.19 Other diagnostic procedures on pharynx
   Excludes: x-ray of nasopharynx:
             contrast (87.06)
             other (87.09)

29.2 Excision of branchial cleft cyst or vestige
   Excludes: branchial cleft fistulectomy (29.52)

29.3 Excision or destruction of lesion or tissue of pharynx
   29.31 Cricopharyngeal myotomy
       Excludes: that with pharyngeal diverticulectomy (29.32)
   29.32 Pharyngeal diverticulectomy
   29.33 Pharyngectomy (partial)
       Excludes: laryngopharyngectomy (30.3)
   29.39 Other excision or destruction of lesion or tissue of pharynx

29.4 Plastic operation on pharynx
   Correction of nasopharyngeal atresia
   Excludes: pharyngoplasty associated with cleft palate repair (27.62-27.63)

29.5 Other repair of pharynx
   29.51 Suture of laceration of pharynx
   29.52 Closure of branchial cleft fistula
   29.53 Closure of other fistula of pharynx
       Pharyngoesophageal fistulectomy
   29.54 Lysis of pharyngeal adhesions
   29.59 Other

29.9 Other operations on pharynx
   29.91 Dilation of pharynx
       Dilation of nasopharynx
   29.92 Division of glosso pharyngeal nerve
   29.99 Other
       Excludes: insertion of radium into pharynx and nasopharynx (92.27)
       removal of intraluminal foreign body (98.13)
6. OPERATIONS ON THE RESPIRATORY SYSTEM (30-34)

30  Excision of larynx

30.0  Excision or destruction of lesion or tissue of larynx
  30.01  Marsupialization of laryngeal cyst
  30.09  Other excision or destruction of lesion or tissue of larynx
         Stripping of vocal cords
         Excludes: biopsy of larynx (31.43)
         laryngeal fistulectomy (31.62)
         laryngotracheal fistulectomy (31.62)

30.1  Hemilaryngectomy

30.2  Other partial laryngectomy
  30.21  Epiglottidectomy
  30.22  Vocal cordectomy
         Excision of vocal cords
  30.29  Other partial laryngectomy
         Excision of laryngeal cartilage

30.3  Complete laryngectomy
  Block dissection of larynx (with thyroidectomy) (with synchronous
  tracheostomy)
  Laryngopharyngectomy
  Excludes: that with radical neck dissection (30.4)

30.4  Radical laryngectomy
  Complete [total] laryngectomy with radical neck dissection (with
  thyroidectomy) (with synchronous tracheostomy)

31  Other operations on larynx and trachea

31.0  Injection of larynx
  Injection of inert material into larynx or vocal cords

31.1  Temporary tracheostomy
  Tracheotomy for assistance in breathing
  Temporary percutaneous dilatational tracheostomy [PDT]
  Code also any synchronous bronchoscopy, if performed (33.21-33.24, 33.27)

31.2  Permanent tracheostomy
  31.21  Mediastinal tracheostomy
  31.29  Other permanent tracheostomy
         Permanent percutaneous dilatational tracheostomy [PDT]
         Code also any synchronous bronchoscopy, if performed
         (33.21-33.24, 33.27)
         Excludes: that with laryngectomy (30.3-30.4)
31.3 Other incision of larynx or trachea

Excludes: that for assistance in breathing (31.1-31.29)

31.4 Diagnostic procedures on larynx and trachea

31.41 Tracheoscopy through artificial stoma

Excludes: that with biopsy (31.43-31.44)

31.42 Laryngoscopy and other tracheoscopy

Excludes: that with biopsy (31.43-31.44)

31.43 Closed [endoscopic] biopsy of larynx

31.44 Closed [endoscopic] biopsy of trachea

31.45 Open biopsy of larynx or trachea

31.48 Other diagnostic procedures on larynx

Excludes: contrast laryngogram (87.07)

microscopic examination of specimen from larynx (90.31-90.39)

soft tissue x-ray of larynx NEC (87.09)

31.49 Other diagnostic procedures on trachea

Excludes: microscopic examination of specimen from trachea (90.41-90.49)

x-ray of trachea (87.49)

31.5 Local excision or destruction of lesion or tissue of trachea

Excludes: biopsy of trachea (31.44-31.45)

laryngotracheal fistulectomy (31.62)

tracheoesophageal fistulectomy (31.73)

31.6 Repair of larynx

31.61 Suture of laceration of larynx

31.62 Closure of fistula of larynx

Laryngotracheal fistulectomy

Take-down of laryngostomy

31.63 Revision of laryngostomy

31.64 Repair of laryngeal fracture

31.69 Other repair of larynx

Arytenoidopexy

Graft of larynx

Transposition of vocal cords

Excludes: construction of artificial larynx (31.75)

31.7 Repair and plastic operations on trachea

31.71 Suture of laceration of trachea

31.72 Closure of external fistula of trachea

Closure of tracheotomy

31.73 Closure of other fistula of trachea

Tracheoesophageal fistulectomy

Excludes: laryngotracheal fistulectomy (31.62)
31.74 Revision of tracheostomy
31.75 Reconstruction of trachea and construction of artificial larynx
   Tracheoplasty with artificial larynx
31.79 Other repair and plastic operations on trachea

31.9 Other operations on larynx and trachea
31.91 Division of laryngeal nerve
31.92 Lysis of adhesions of trachea or larynx
31.93 Replacement of laryngeal or tracheal stent
31.94 Injection of locally-acting therapeutic substance into trachea
31.95 Tracheoesophageal fistulization
31.98 Other operations on larynx
   Dilatation of larynx
   Division of congenital web of larynx
   Removal of keel or stent of larynx
   Excludes: removal of intraluminal foreign body from larynx without incision (98.14)
31.99 Other operations on trachea
   Excludes: removal of:
   intraluminal foreign body from trachea without incision (98.15)
   tracheostomy tube (97.37)
   replacement of tracheostomy tube (97.23)
   tracheostomy toilette (96.55)

32 Excision of lung and bronchus
   Includes: rib resection as operative approach
   sternotomy as operative approach
   sternum-splitting incision as operative approach
   thoracotomy as operative approach
   Code also any synchronous bronchoplasty (33.48)

32.0 Local excision or destruction of lesion or tissue of bronchus
   Excludes: biopsy of bronchus (33.24-33.25)
   bronchial fistulectomy (33.42)
32.01 Endoscopic excision or destruction of lesion or tissue of bronchus
32.09 Other local excision or destruction of lesion or tissue of bronchus
   Excludes: that by endoscopic approach (32.01)

32.1 Other excision of bronchus
   Resection (wide sleeve) of bronchus
   Excludes: radical dissection [excision] of bronchus (32.6)

32.2 Local excision or destruction of lesion or tissue of lung
32.20 Thoracoscopic excision of lesion or tissue of lung
   Thoracoscopic wedge resection
32.21 Plication of emphysematous bleb
32.22 Lung volume reduction surgery
32.23 Open ablation of lung lesion or tissue
32.24 Percutaneous ablation of lung lesion or tissue
32.25 Thoracoscopic ablation of lung lesion or tissue
   *Excludes:* thoracoscopic excision of lesion or tissue of lung \(32.20\)
32.26 Other and unspecified ablation of lung lesion or tissue
32.28 Endoscopic excision or destruction of lesion or tissue of lung
   *Excludes:* ablation of lung lesion or tissue:
   open \(32.23\)
   other \(32.26\)
   percutaneous \(32.24\)
   thoracoscopic \(32.25\)
   biopsy of lung \(33.26-33.27\)
32.29 Other local excision or destruction of lesion or tissue of lung
   Resection of lung:
   NOS
   wedge
   *Excludes:* ablation of lung lesion or tissue:
   open \(32.23\)
   other \(32.26\)
   percutaneous \(32.24\)
   thoracoscopic \(32.25\)
   biopsy of lung \(33.26-33.27\)
   that by endoscopic approach \(32.28\)
   thoracoscopic excision of lesion or tissue of lung \(32.20\)
   wide excision of lesion of lung \(32.3\)

32.3 Segmental resection of lung
   Partial lobectomy
32.30 Thoracoscopic segmental resection of lung
32.39 Other and unspecified segmental resection of lung
   *Excludes:* thoracoscopic segmental resection of lung \(32.30\)

32.4 Lobectomy of lung
   Lobectomy with segmental resection of adjacent lobes of lung
   *Excludes:* that with radical dissection [excision] of thoracic structures \(32.6\)
32.41 Thoracoscopic lobectomy of lung
32.49 Other lobectomy of lung
   *Excludes:* thoracoscopic lobectomy of lung \(32.41\)

32.5 Pneumonectomy
   Excision of lung NOS
   Pneumonectomy (with mediastinal dissection)
32.50 Thoracoscopic pneumonectomy
32.59 Other and unspecified pneumonectomy
   *Excludes:* thoracoscopic pneumonectomy \(32.50\)
32.6 Radical dissection of thoracic structures
   Block [en bloc] dissection of bronchus, lobe of lung, brachial plexus, intercostal structure, ribs (transverse process), and sympathetic nerves

32.9 Other excision of lung
   Excludes: biopsy of lung and bronchus (33.24-33.27)
   pulmonary decortication (34.51)

33 Other operations on lung and bronchus
   Includes: rib resection as operative approach
   sternotomy as operative approach
   sternum-splitting incision as operative approach
   thoracotomy as operative approach

33.0 Incision of bronchus

33.1 Incision of lung
   Excludes: puncture of lung (33.93)

33.2 Diagnostic procedures on lung and bronchus

33.20 Thoracoscopic lung biopsy
   Excludes: closed endoscopic biopsy of lung (33.27)
   closed [percutaneous] [needle] biopsy of lung (33.26)
   open biopsy of lung (33.28)

33.21 Bronchoscopy through artificial stoma
   Excludes: that with biopsy (33.24,33.27)

33.22 Fiber-optic bronchoscopy
   Excludes: that with biopsy (33.24,33.27)

33.23 Other bronchoscopy
   Excludes: that for:
   aspiration (96.05)
   biopsy (33.24,33.27)

33.24 Closed [endoscopic] biopsy of bronchus
   Bronchoscopy (fiberoptic) (rigid) with:
   brush biopsy of "lung"
   brushing or washing for specimen collection
   excision (bite) biopsy
   Diagnostic bronchoalveolar lavage (BAL)
   Transbronchoscopic needle aspiration [TBNA]
   Excludes: closed biopsy of lung, other than brush biopsy of "lung"
            (33.26,33.27)
            whole lung lavage (33.99)

33.25 Open biopsy of bronchus
   Excludes: open biopsy of lung (33.28)

33.26 Closed [percutaneous] [needle] biopsy of lung
   Fine needle aspiration (FNA) of lung
   Transthoracic needle biopsy of lung (TTNB)
   Excludes: endoscopic biopsy of lung (33.27)
   thoracoscopic lung biopsy (33.20)
33.27 **Closed endoscopic biopsy of lung** ®
Fiber-optic (flexible) bronchoscopy with fluoroscopic guidance with biopsy
Transbronchial lung biopsy
*Excludes: brush biopsy of "lung" (33.24)*
*percutaneous biopsy of lung (33.26)*
*thoracoscopic lung biopsy (33.20)*

33.28 **Open biopsy of lung**

33.29 **Other diagnostic procedures on lung and bronchus** ®
*Excludes: contrast bronchogram:
  endotracheal (87.31)
  other (87.32)*
*endoscopic pulmonary airway flow measurement (33.72)*
*laser interstitial thermal therapy [LITT] of lesion or tissue of lung under guidance (17.69)*
*lung scan (92.15)*
*magnetic resonance imaging (88.92)*
*microscopic examination of specimen from bronchus or lung (90.41-90.49)*
*routine chest x-ray (87.44)*
*ultrasonography of lung (88.73)*
*vital capacity determination (89.37)*
*x-ray of bronchus or lung NOS (87.49)*

33.3 **Surgical collapse of lung**

33.31 **Destruction of phrenic nerve for collapse of lung**

33.32 **Artificial pneumothorax for collapse of lung**
  Thoracotomy for collapse of lung

33.33 **Pneumoperitoneum for collapse of lung**

33.34 **Thoracoplasty**

33.39 **Other surgical collapse of lung**
  Collapse of lung NOS

33.4 **Repair and plastic operation on lung and bronchus**

33.41 **Suture of laceration of bronchus**

33.42 **Closure of bronchial fistula**
  Closure of bronchostomy
  Fistulectomy:
    bronchocutaneous
    bronchoesophageal
    bronchovisceral
*Excludes: closure of fistula:
  bronchomediastinal (34.73)
  bronchopleural (34.73)
  bronchopleuromediastinal (34.73)*

33.43 **Closure of laceration of lung**

33.48 **Other repair and plastic operations on bronchus**

33.49 **Other repair and plastic operations on lung**
*Excludes: closure of pleural fistula (34.73)*
33.5 Lung transplant

Note: To report donor source --see codes 00.91-00.93

Excludes: combined heart-lung transplantation (33.6)
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

33.50 Lung transplantation, not otherwise specified

33.51 Unilateral lung transplantation

33.52 Bilateral lung transplantation
Double-lung transplantation
En bloc transplantation
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

33.6 Combined heart-lung transplantation

Note: To report donor source --see codes 00.91-00.93
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

33.7 Other endoscopic procedures in bronchus or lung

Excludes: insertion of tracheobronchial stent (96.05)

33.71 Endoscopic insertion or replacement of bronchial valve(s), single lobe
Endobronchial airflow redirection valve
Intrabronchial airflow redirection valve
Excludes: endoscopic insertion or replacement of bronchial valve(s), multiple lobes (33.73)

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

33.73 Endoscopic insertion or replacement of bronchial valve(s), multiple lobes

Excludes: endoscopic insertion or replacement of bronchial valve(s), single lobe (33.71)

33.78 Endoscopic removal of bronchial device(s) or substances

33.79 Endoscopic insertion of other bronchial device or substances
Biologic Lung Volume Reduction NOS (BLVR)

33.9 Other operations on lung and bronchus

33.91 Bronchial dilation

33.92 Ligation of bronchus

33.93 Puncture of lung
Excludes: needle biopsy (33.26)

33.98 Other operations on bronchus

Excludes: bronchial lavage (96.56)
removal of intraluminal foreign body from bronchus without incision (98.15)
33.99 Other operations on lung
   Whole lung lavage
   Excludes: other continuous mechanical ventilation (96.70-96.72)
   respiratory therapy (93.90-93.99)

34 Operations on chest wall, pleura, mediastinum, and diaphragm
   Excludes: operations on breast (85.0-85.99)

34.0 Incision of chest wall and pleura
   Excludes: that as operative approach --omit code

34.01 Incision of chest wall
   Extrapleural drainage
   Excludes: incision of pleura (34.09)

34.02 Exploratory thoracotomy

34.03 Reopening of recent thoracotomy site

34.04 Insertion of intercostal catheter for drainage
   Chest tube
   Closed chest drainage
   Revision of intercostal catheter (chest tube) (with lysis of adhesions)
   Excludes: thoracoscopic drainage of pleural cavity (34.06)

34.05 Creation of pleuroperitoneal shunt

34.06 Thoracoscopic drainage of pleural cavity
   Evacuation of empyema

34.09 Other incision of pleura
   Creation of pleural window for drainage
   Intercostal stab
   Open chest drainage
   Excludes: thoracoscopy (34.21)
   thoracotomy for collapse of lung (33.32)

34.1 Incision of mediastinum
   Code also any biopsy, if performed
   Excludes: mediastinoscopy (34.22)
   mediastinotomy associated with pneumonectomy (32.5)

34.2 Diagnostic procedures on chest wall, pleura, mediastinum, and diaphragm

34.20 Thoracoscopic pleural biopsy

34.21 Transpleural thoracoscopy

34.22 Mediastinoscopy
   Code also any biopsy, if performed

34.23 Biopsy of chest wall

34.24 Other pleural biopsy
   Excludes: thoracoscopic pleural biopsy (34.20)
34.25 Closed [percutaneous] [needle] biopsy of mediastinum
34.26 Open mediastinal biopsy
34.27 Biopsy of diaphragm
34.28 Other diagnostic procedures on chest wall, pleura, and diaphragm
   Excludes: angiocardiography (88.50-88.58)
   aortography (88.42)
   arteriography of:
   intrathoracic vessels NEC (88.44)
   pulmonary arteries (88.43)
   microscopic examination of specimen from chest wall, pleura, and diaphragm (90.41-90.49)
   phlebography of:
   intrathoracic vessels NEC (88.63)
   pulmonary veins (88.62)
   radiological examinations of thorax:
   C.A.T. scan (87.41)
   diaphragmatic x-ray (87.49)
   intrathoracic lymphangiogram (87.34)
   routine chest x-ray (87.44)
   sinogram of chest wall (87.38)
   soft tissue x-ray of chest wall NEC (87.39)
   tomogram of thorax NEC (87.42)
   ultrasonography of thorax (88.73)
34.29 Other diagnostic procedures on mediastinum
   Excludes: mediastinal:
   pneumogram (87.33)
   x-ray NEC (87.49)
34.3 Excision or destruction of lesion or tissue of mediastinum
   Excludes: biopsy of mediastinum (34.25-34.26)
   mediastinal fistulectomy (34.73)
34.4 Excision or destruction of lesion of chest wall
   Excision of lesion of chest wall NOS (with excision of ribs)
   Excludes: biopsy of chest wall (34.23)
   costectomy not incidental to thoracic procedure (77.91)
   excision of lesion of:
   breast (85.20-85.25)
   cartilage (80.89)
   skin (86.2-86.3)
   fistulectomy (34.73)
34.5 Pleurectomy
34.51 Decortication of lung
   Excludes: thoracoscopic decortication of lung (34.52)
34.52 Thoracoscopic decortication of lung
34.59 Other excision of pleura
   Excision of pleural lesion
   Excludes: biopsy of pleura (34.24)
   pleural fistulectomy (34.73)
34.6 Scarification of pleura
Pleurosclerosis
Excludes: injection of sclerosing agent (34.92)

34.7 Repair of chest wall
34.71 Suture of laceration of chest wall
Excludes: suture of skin and subcutaneous tissue alone (86.59)

34.72 Closure of thoracostomy

34.73 Closure of other fistula of thorax
Closure of:
- bronchopleural fistula
- bronchopleurocutaneous fistula
- bronchopleuromediastinal fistula

34.74 Repair of pectus deformity
Repair of:
- pectus carinatum (with implant)
- pectus excavatum (with implant)

34.79 Other repair of chest wall
Repair of chest wall NOS

34.8 Operations on diaphragm
34.81 Excision of lesion or tissue of diaphragm
Excludes: biopsy of diaphragm (34.27)

34.82 Suture of laceration of diaphragm

34.83 Closure of fistula of diaphragm
- Thoracicoabdominal fistulectomy
- Thoracicogastric fistulectomy
- Thoracicointestinal fistulectomy

34.84 Other repair of diaphragm
Excludes: repair of diaphragmatic hernia (53.7-53.82)

34.85 Implantation of diaphragmatic pacemaker

34.89 Other operations on diaphragm

34.9 Other operations on thorax
34.91 Thoracentesis

34.92 Injection into thoracic cavity®
- Chemical pleurodesis
- Injection of cytotoxic agent or tetracycline
- Instillation into thoracic cavity
- Requires additional code for any cancer chemotherapeutic substance (99.25)
Excludes: that for collapse of lung (33.32)

34.93 Repair of pleura

34.99 Other
Excludes: removal of:
- mediastinal drain (97.42)
- sutures (97.43)
- thoracotomy tube (97.41)
7. OPERATIONS ON THE Cardiovascular SYSTEM (35-39)

35  Operations on valves and septa of heart
   Includes: sternotomy (median) (transverse) as operative approach
   thoracotomy as operative approach
   Code also cardiopulmonary bypass [extracorporeal circulation] [heart- lung
   machine] (39.61)

35.0 Closed heart valvotomy
   Excludes: percutaneous (balloon) valvuloplasty (35.96)
   35.00 Closed heart valvotomy, unspecified valve
   35.01 Closed heart valvotomy, aortic valve
   35.02 Closed heart valvotomy, mitral valve
   35.03 Closed heart valvotomy, pulmonary valve
   35.04 Closed heart valvotomy, tricuspid valve

35.1 Open heart valvuloplasty without replacement
   Includes: open heart valvotomy
   Excludes: that associated with repair of:
   endocardial cushion defect (35.54, 35.63, 35.73)
   valvular defect associated with atrial and ventricular septal
   defects (35.54, 35.63, 35.73)
   percutaneous (balloon) valvuloplasty (35.96)
   Code also cardiopulmonary bypass if performed [extracorporeal circulation] [heart- lung machine] (39.61)
   35.10 Open heart valvuloplasty without replacement, unspecified valve
   35.11 Open heart valvuloplasty of aortic valve without replacement
   35.12 Open heart valvuloplasty of mitral valve without replacement
   35.13 Open heart valvuloplasty of pulmonary valve without replacement
   35.14 Open heart valvuloplasty of tricuspid valve without replacement

35.2 Replacement of heart valve
   Includes: excision of heart valve with replacement
   Code also cardiopulmonary bypass [extracorporeal circulation] [heart- lung
   machine] (39.61)
   Excludes: that associated with repair of:
   endocardial cushion defect (35.54, 35.63, 35.73)
   valvular defect associated with atrial and ventricular septal
   defects (35.54, 35.63, 35.73)
   35.20 Replacement of unspecified heart valve
   Repair of unspecified heart valve with tissue graft or prosthetic
   implant
   35.21 Replacement of aortic valve with tissue graft
   Repair of aortic valve with tissue graft (autograft) (heterograft) (homograft)
35.22 Other replacement of aortic valve
Repair of aortic valve with replacement:
NOS
prosthetic (partial) (synthetic) (total)

35.23 Replacement of mitral valve with tissue graft
Repair of mitral valve with tissue graft (autograft) (heterograft) (homograft)

35.24 Other replacement of mitral valve
Repair of mitral valve with replacement:
NOS
prosthetic (partial) (synthetic) (total)

35.25 Replacement of pulmonary valve with tissue graft
Repair of pulmonary valve with tissue graft (autograft) (heterograft) (homograft)

35.26 Other replacement of pulmonary valve
Repair of pulmonary valve with replacement:
NOS
prosthetic (partial) (synthetic) (total)

35.27 Replacement of tricuspid valve with tissue graft
Repair of tricuspid valve with tissue graft (autograft) (heterograft) (homograft)

35.28 Other replacement of tricuspid valve
Repair of tricuspid valve with replacement:
NOS
prosthetic (partial) (synthetic) (total)

35.3 Operations on structures adjacent to heart valves
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

35.31 Operations on papillary muscle
Division of papillary muscle
Reattachment of papillary muscle
Repair of papillary muscle

35.32 Operations on chordae tendineae
Division of chordae tendineae
Repair of chordae tendineae

35.33 Anuloplasty
Plication of annulus

35.34 Infundibulectomy
Right ventricular infundibulectomy

35.35 Operations on trabeculae carneae cordis
Division of trabeculae carneae cordis
Excision of trabeculae carneae cordis
Excision of aortic subvalvular ring

35.39 Operations on other structures adjacent to valves of heart
Repair of sinus of Valsalva (aneurysm)
35.4 Production of septal defect in heart
   35.41 Enlargement of existing atrial septal defect
       Rashkind procedure
       Septostomy (atrial) (balloon)
   35.42 Creation of septal defect in heart
       Blalock-Hanlon operation

35.5 Repair of atrial and ventricular septa with prosthesis
   Includes: repair of septa with synthetic implant or patch
   Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)
   35.50 Repair of unspecified septal defect of heart with prosthesis
       Excludes: that associated with repair of:
       endocardial cushion defect (35.54)
       septal defect associated with valvular defect (35.54)

35.51 Repair of atrial septal defect with prosthesis, open technique
   Atrioseptoplasty with prosthesis
   Correction of atrial septal defect with prosthesis
   Repair:
   foramen ovale (patent)
   with prosthesis ostium secundum defect with prosthesis
   Excludes: that associated with repair of:
   atrial septal defect associated with valvular and ventricular septal defects (35.54)
   endocardial cushion defect (35.54)

35.52 Repair of atrial septal defect with prosthesis, closed technique
   Insertion of atrial septal umbrella [King-Mills]

35.53 Repair of ventricular septal defect with prosthesis, open technique
   Correction of ventricular septal defect with prosthesis
   Repair of supracristal defect with prosthesis
   Excludes: that associated with repair of:
   endocardial cushion defect (35.54)
   ventricular defect associated with valvular and atrial septal defects (35.54)

35.54 Repair of endocardial cushion defect with prosthesis
   Repair:
   atriopulmonary canal with prosthesis (grafted to septa)
   ostium primum defect with prosthesis (grafted to septa)
   valvular defect associated with atrial and ventricular septal defects
   with prosthesis (grafted to septa)
   Excludes: repair of isolated:
   atrial septal defect (35.51-35.52)
   valvular defect (35.20, 35.22, 35.24, 35.26, 35.28)
   ventricular septal defect (35.53)

35.55 Repair of ventricular septal defect with prosthesis, closed technique
35.6 Repair of atrial and ventricular septa with tissue graft
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

35.60 Repair of unspecified septal defect of heart with tissue graft
Excludes: that associated with repair of:
endocardial cushion defect (35.63)
septal defect associated with valvular defect (35.63)

35.61 Repair of atrial septal defect with tissue graft
Atrioseptoplasty with tissue graft
Correction of atrial septal defect with tissue graft
Repair:
foramen ovale (patent) with tissue graft
ostium secundum defect with tissue graft
Excludes: that associated with repair of:
atrial septal defect associated with valvular and ventricular septal defects (35.63)
endocardial cushion defect (35.63)

35.62 Repair of ventricular septal defect with tissue graft
Correction of ventricular septal defect with tissue graft
Repair of supracristal defect with tissue graft
Excludes: that associated with repair of:
endocardial cushion defect (35.63)
ventricular defect associated with valvular and atrial septal defects (35.63)

35.63 Repair of endocardial cushion defect with tissue graft
Repair of:
atrioventricular canal with tissue graft
ostium primum defect with tissue graft
valvular defect associated with atrial and ventricular septal defects with tissue graft
Excludes: repair of isolated:
atrial septal defect (35.61)
valvular defect (35.20-35.21, 35.23, 35.25, 35.27)
ventricular septal defect (35.62)

35.7 Other and unspecified repair of atrial and ventricular septa
Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

35.70 Other and unspecified repair of unspecified septal defect of heart
Repair of septal defect NOS
Excludes: that associated with repair of:
endocardial cushion defect (35.73)
septal defect associated with valvular defect (35.73)
35.71 Other and unspecified repair of atrial septal defect
  Repair NOS:
  atrial septum
  foramen ovale (patent)
  ostium secundum defect

  Excludes: that associated with repair of:
  atrial septal defect associated with valvular ventricular septal defects (35.73)
  endocardial cushion defect (35.73)

35.72 Other and unspecified repair of ventricular septal defect
  Repair NOS:
  supracristal defect
  ventricular septum

  Excludes: that associated with repair of:
  endocardial cushion defect (35.73)
  ventricular septal defect associated with valvular and atrial septal defects (35.73)

35.73 Other and unspecified repair of endocardial cushion defect
  Repair NOS:
  atrioventricular canal
  ostium primum defect
  valvular defect associated with atrial and ventricular septal defects

  Excludes: repair of isolated:
  atrial septal defect (35.71)
  valvular defect (35.20, 35.22, 35.24, 35.26, 35.28)
  ventricular septal defect (35.72)

35.8 Total repair of certain congenital cardiac anomalies
  Note: For partial repair of defect [e.g. repair of atrial septal defect in tetralogy of Fallot] - code to specific procedure

35.81 Total repair of tetralogy of Fallot
  One-stage total correction of tetralogy of Fallot with or without:
  commissurotomy of pulmonary valve
  infundibulectomy
  outflow tract prosthesis
  patch graft of outflow tract
  prosthetic tube for pulmonary artery
  repair of ventricular septal defect (with prosthesis)
  take-down of previous systemic-pulmonary artery anastomosis

35.82 Total repair of total anomalous pulmonary venous connection
  One-stage total correction of total anomalous pulmonary venous connection with or without:
  anastomosis between (horizontal) common pulmonary trunk and posterior wall of left atrium (side-to-side)
  enlargement of foramen ovale
  incision [excision] of common wall between posterior left atrium and coronary sinus and roofing of resultant defect with patch graft (synthetic)
  ligation of venous connection (descending anomalous vein) (to left innominate vein) (to superior vena cava)
  repair of atrial septal defect (with prosthesis)
35.83 **Total repair of truncus arteriosus**
One-stage total correction of truncus arteriosus with or without:
construction (with aortic homograft) (with prosthesis) of a
pulmonary artery placed from right ventricle to arteries supplying
the lung
ligation of connections between aorta and pulmonary artery
repair of ventricular septal defect (with prosthesis)

35.84 **Total correction of transposition of great vessels, not elsewhere
classified**
Arterial switch operation [Jatene]
Total correction of transposition of great arteries at the arterial level
by switching the great arteries, including the left or both coronary
arteries, implanted in the wall of the pulmonary artery

*Excludes: baffle operation [Mustard] [Senning] (35.91)*
*creation of shunt between right ventricle and pulmonary
artery [Rastelli] (35.92)*

35.9 **Other operations on valves and septa of heart**
Code also cardiopulmonary bypass, if performed [extracorporeal circulation]
[heart-lung machine] (39.61)

35.91 **Interatrial transposition of venous return**
Baffle:
atrial
interatrial
Mustard's operation
Resection of atrial septum and insertion of patch to direct systemic
venous return to tricuspid valve and pulmonary venous return to
mitral valve

35.92 **Creation of conduit between right ventricle and pulmonary artery**
Creation of shunt between right ventricle and (distal) pulmonary artery

*Excludes: that associated with total repair of truncus arteriosus (35.83)*

35.93 **Creation of conduit between left ventricle and aorta**
Creation of apicoaortic shunt
Shunt between apex of left ventricle and aorta

35.94 **Creation of conduit between atrium and pulmonary artery**
Fontan procedure

35.95 **Revision of corrective procedure on heart**
Replacement of prosthetic heart valve poppet
Resuturing of prosthesis of:
septum
valve

*Excludes: complete revision -- code to specific procedure
replacement of prosthesis or graft of:
septum (35.50-35.63)
valve (35.20-35.28)*

35.96 **Percutaneous valvuloplasty**
Percutaneous balloon valvuloplasty

35.98 **Other operations on septa of heart**

35.99 **Other operations on valves of heart**
36  Operations on vessels of heart
Includes: sternotomy (median) (transverse) as operative approach
  thoracotomy as operative approach
Code also any:
  cardiopulmonary bypass, if performed [extracorporeal circulation]
    [heart- lung machine] (39.61)
  injection or infusion of platelet inhibitor (99.20)
  injection or infusion of thrombolytic agent (99.10)

36.0  Removal of coronary artery obstruction and insertion of stent(s)

36.03  Open chest coronary artery angioplasty
Coronary (artery):
  endarterectomy (with patch graft)
  thromboendarterectomy (with patch graft)
Open surgery for direct relief of coronary artery obstruction
Excludes: that with coronary artery bypass graft (36.10-36.19)
Code also any:
  insertion of drug- eluting coronary stent(s) (36.07)
  insertion of non- drug- eluting coronary stent(s) (36.06)
  number of vascular stents inserted (00.45-00.48)
  number of vessels treated (00.40-00.43)
  procedure on vessel bifurcation (00.44)

36.04  Intracoronary artery thrombolytic infusion
That by direct coronary artery injection, infusion, or catheterization
  enzyme infusion
  Platelet inhibitor
Excludes: infusion of platelet inhibitor (99.20)
  infusion of thrombolytic agent (99.10)
  that associated with any procedure in 36.03

36.06  Insertion of non- drug- eluting coronary artery stent(s)
Bare stent(s)
Bonded stent(s)
Drug- coated stent(s), i.e. heparin coated
Endograft(s)
Endovascular graft(s)
Stent grafts
Code also any:
  number of vascular stents inserted (00.45-00.48)
  number of vessels treated (00.40-00.43)
  open chest coronary artery angioplasty (36.03)
  percutaneous transluminal coronary angioplasty [PTCA] or
coronary atherectomy (00.66)
  procedure on vessel bifurcation (00.44)
Excludes: insertion of drug-eluting coronary artery stent(s) (36.07)
36.07  **Insertion of drug-eluting coronary artery stent(s)**
Endograft(s)
Endovascular graft(s)
Stent graft(s)

Code also any:
- number of vascular stents inserted (00.45-00.48)
- number of vessels treated (00.40-00.43)
- open chest coronary artery angioplasty (36.03)
- percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy (00.66)
- procedure on vessel bifurcation (00.44)

*Excludes: drug-coated stents, e.g., heparin coated (36.06) insertion of non-drug-eluting coronary artery stent(s) (36.06)*

36.09  **Other removal of coronary artery obstruction**
Coronary angioplasty NOS

Code also any:
- number of vascular stents inserted (00.45-00.48)
- number of vessels treated (00.40-00.43)
- procedure on vessel bifurcation (00.44)

*Excludes: that by open angioplasty (36.03) that by percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy (00.66)*

36.1  **Bypass anastomosis for heart revascularization**

Note: Do not assign codes from series 00.40-00.43 with codes from series 36.10-36.19

Code also: cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)
- pressurized treatment of venous bypass graft [conduit] with pharmaceutical substance, if performed (00.16)

36.10  **Aortocoronary bypass for heart revascularization, not otherwise specified**

Direct revascularization:
- cardiac with catheter stent, prosthesis, or vein graft
- coronary with catheter stent, prosthesis, or vein graft
- heart muscle with catheter stent, prosthesis, or vein graft
- myocardial with catheter stent, prosthesis, or vein graft

Heart revascularization NOS

36.11  **(Aorto)coronary bypass of one coronary artery**

36.12  **(Aorto)coronary bypass of two coronary arteries**

36.13  **(Aorto)coronary bypass of three coronary arteries**

36.14  **(Aorto)coronary bypass of four or more coronary arteries**

36.15  **Single internal mammary- coronary artery bypass**

Anastomosis (single):
- mammary artery to coronary artery
- thoracic artery to coronary artery
36.16 Double internal mammary-coronary artery bypass
Anastomosis, double:
  mammary artery to coronary artery
  thoracic artery to coronary artery

36.17 Abdominal - coronary artery bypass
Anastomosis:
  Gastroepiploic - coronary artery

36.19 Other bypass anastomosis for heart revascularization

36.2 Heart revascularization by arterial implant
Implantation of:
  aortic branches [ascending aortic branches] into heart muscle
  blood vessels into myocardium
  internal mammary artery [internal thoracic artery] into:
    heart muscle
    myocardium
    ventricle
    ventricular wall
  Indirect heart revascularization NOS

36.3 Other heart revascularization
36.31 Open chest transmyocardial revascularization
36.32 Other transmyocardial revascularization

36.33 Endoscopic transmyocardial revascularization
  Thoracoscopic transmyocardial revascularization

36.34 Percutaneous transmyocardial revascularization
  Endovascular transmyocardial revascularization

36.39 Other heart revascularization
  Abrasion of epicardium
  Cardio- omentopexy
  Intrapericardial poudrage
    Myocardial graft:
      mediastinal fat
      omentum
      pectoral muscles

36.9 Other operations on vessels of heart
   Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung
   machine] (39.61)

36.91 Repair of aneurysm of coronary vessel

36.99 Other operations on vessels of heart
  Exploration of coronary artery
  Incision of coronary artery
  Ligature of coronary artery
  Repair of arteriovenous fistula
37 Other operations on heart and pericardium

Code also any injection or infusion of platelet inhibitor (99.20)

37.0 Pericardiocentesis

37.1 Cardiotomy and pericardiectomy

Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

37.10 Incision of heart, not otherwise specified
Cardiolysis NOS

37.11 Cardiotomy
Incision of:
atrium
endocardium
myocardium
ventricle

37.12 Pericardiectomy
Pericardial window operation
Pericardiolyis
Pericardiectomy

37.2 Diagnostic procedures on heart and pericardium

37.20 Noninvasive programmed electrical stimulation (NIPS)

Excludes: that as part of intraoperative testing --omit code
catheter based invasive electrophysiologic testing (37.26)
device interrogation only without arrhythmia induction
(bedside check) (89.45-89.49)

37.21 Right heart cardiac catheterization
Cardiac catheterization NOS

Excludes: that with catheterization of left heart (37.23)

37.22 Left heart cardiac catheterization

Excludes: that with catheterization of right heart (37.23)

37.23 Combined right and left heart cardiac catheterization

37.24 Biopsy of pericardium

37.25 Biopsy of heart

37.26 Catheter based invasive electrophysiologic testing
Electrophysiologic studies [EPS]
Code also any concomitant procedure

Excludes: that as part of intraoperative testing --omit code
device interrogation only without arrhythmia induction
(bedside check) (89.45-89.49)
His bundle recording (37.29)
noninvasive programmed electrical stimulation (NIPS) (37.20)

37.27 Cardiac mapping
Code also any concomitant procedure

Excludes: electrocardiogram (89.52)
His bundle recording (37.29)
37.28 Intracardiac echocardiography
   Echocardiography of heart chambers
   ICE
   Code also any synchronous Doppler flow mapping (88.72)
   Excludes: intravascular imaging of coronary vessels (intravascular ultrasound)(IVUS) (00.24)

37.29 Other diagnostic procedures on heart and pericardium
   Excludes: angiocardiography (88.50-88.58)
   cardiac function tests (89.41-89.69)
   cardiovascular radioisotopic scan and function study (92.05)
   coronary arteriography (88.55-88.57)
   diagnostic pericardiocentesis (37.0)
   diagnostic ultrasound of heart (88.72)
   x-ray of heart (87.49)

37.3 Pericardiectomy and excision of lesion of heart
   Code also cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

37.31 Pericardiectomy
   Excision of:
   adhesions of pericardium constricting scar of:
   epicardium
   pericardium

37.32 Excision of aneurysm of heart
   Repair of aneurysm of heart

37.33 Excision or destruction of other lesion or tissue of heart, open approach
   Ablation of heart tissue (cryoablation) (electrocurrent) (laser)
   (microwave) (radiofrequency) (resection), open chest approach
   Cox-maze procedure
   Maze procedure
   Modified maze procedure, trans-thoracic approach
   Excludes: ablation, excision or destruction of lesion or tissue of heart, endovascular approach (37.34)
   excision or destruction of left atrial appendage (LAA) (37.36)

37.34 Excision or destruction of other lesion or tissue of heart, other approach
   Ablation of heart tissue (cryoablation) (electrocurrent)(laser)
   (microwave) (radiofrequency) (resection), via peripherally inserted catheter
   Modified maze procedure, endovascular approach

37.35 Partial ventriculectomy
   Ventricular reduction surgery
   Ventricular remodeling
   Code also any synchronous:
   mitral valve repair (35.02, 35.12)
   mitral valve replacement (35.23 - 35.24)
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)

37.4 Repair of heart and pericardium

37.41 Implantation of prosthetic cardiac support device around the heart
- Cardiac support device (CSD)
- Epicardial support device
- Fabric (textile) (mesh) device
- Ventricular support device on surface of heart

Code also any:
- cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] if performed (39.61)
- mitral valve repair (35.02, 35.12)
- mitral valve replacement (35.23 - 35.24)
- transesophageal echocardiography (88.72)

Excludes: circulatory assist systems (37.61 - 37.68)

37.49 Other repair of heart and pericardium

37.5 Heart replacement procedures

37.51 Heart transplantation

Excludes: combined heart-lung transplantation (33.6)

37.52 Implantation of total internal biventricular heart replacement system
- Artificial heart

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

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.

37.53 Replacement or repair of thoracic unit of (total) replacement heart system

Excludes: replacement and repair of heart assist system [VAD] (37.63)

37.54 Replacement or repair of other implantable component of (total) replacement heart system
- Implantable battery
- Implantable controller
- Transcutaneous energy transfer [TET] device

Excludes: replacement and repair of heart assist system [VAD] (37.63) replacement or repair of thoracic unit of (total) replacement heart system (37.53)
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)

37.6 **Implantation of heart and circulatory assist system(s)**  
*Excludes*: implantation of prosthetic cardiac support system (37.41)

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. Venticulotomy 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)

37.61 **Implant of pulsation balloon**

37.62 **Insertion of temporary non-implantable extracorporeal circulatory assist device**  
Acute circulatory support device  
Insertion of heart assist system, NOS  
Insertion of heart pump  
Short-term circulatory support (up to six hours)  
*Excludes*: implantation of total internal biventricular heart replacement system [artificial heart] (37.52)  
insertion of percutaneous external heart assist device (37.68)  
implant of external heart assist system (37.65)  
insertion of implantable extracorporeal heart assist system (37.66)  
removal of heart assist system (37.64)  
Note: Includes explantation of this device; do not code separately.
**37.63 Repair of heart assist system**
Replacement of parts of an existing ventricular assist device (VAD)

*Excludes:* replacement or repair of other implantable component of (total) replacement heart system [artificial heart] (37.54), replacement or repair of thoracic unit of (total) replacement heart system [artificial heart] (37.53).

**37.64 Removal of heart assist system(s) or device(s)**
Explantation of external device(s) providing left and right ventricular support
Explantation of single external device and cannulae

*Excludes:* that with replacement of implant (37.63), explantation [removal] of percutaneous external heart assist device (97.44), nonoperative removal of heart assist system (97.44), temporary non-implantable extracorporeal circulatory assist device (37.62).

**37.65 Implant of single ventricular (extracorporeal) external heart assist system**
Insertion of one device into one ventricle

*Note:* Device (outside the body but connected to heart) with external circulation and pump. Insertion or implantation of one external VAD for left or right heart support.

Includes open chest (sternotomy) procedure for cannulae attachments

*Excludes:* implant of pulsation balloon (37.61), implantation of total internal biventricular heart replacement system (37.52), insertion of percutaneous external heart assist device (37.68), insertion of implantable heart assist system (37.66), insertion or implantation of two external VADs for simultaneous right and left heart support (37.60), that without sternotomy (37.62).

**37.66 Insertion of implantable heart assist system**
Axial flow heart assist system
Diagonal pump heart assist system
Left ventricular assist device (LVAD)
Pulsatile heart assist system
Right ventricular assist device (RVAD)
Rotary pump heart assist system
Transportable, implantable heart assist system
Ventricular assist device (VAD) not otherwise specified

*Note:* Device directly connected to the heart and implanted in the upper left quadrant of peritoneal cavity. This device can be used for either destination therapy (DT) or bridge-to-transplant (BTT)

*Excludes:* implant of pulsation balloon (37.61), implantation of total internal biventricular heart replacement system [artificial heart] (37.52), insertion of percutaneous external heart assist device (37.68).
37.67 Implantation of cardiomyostimulation system
Note: Two-step open procedure consisting of transfer of one end of the latissimus dorsi muscle; wrapping it around the heart; rib resection; implantation of epicardial cardiac pacing leads into the right ventricle; tunneling and pocket creation for the cardiomyostimulator.

37.68 Insertion of percutaneous external heart assist device
Includes percutaneous [femoral] insertion of cannulae attachments
  Circulatory assist device
  Extrinsic heart assist device
  pVAD
  Percutaneous heart assist device

37.7 Insertion, revision, replacement, and removal of leads; insertion of temporary pacemaker system; or revision of cardiac device pocket
Code also any insertion and replacement of pacemaker device (37.80-37.87)
Excludes: implantation or replacement of transvenous lead [electrode] into left ventricular cardiac venous system (00.52)

37.70 Initial insertion of lead [electrode], not otherwise specified
  Excludes: insertion of temporary transvenous pacemaker system
            replacement of atrial and/or ventricular lead(s) (37.76)

37.71 Initial insertion of transvenous lead [electrode] into ventricle
  Excludes: insertion of temporary transvenous pacemaker system
            replacement of atrial and/or ventricular lead(s) (37.76)

37.72 Initial insertion of transvenous leads [electrodes] into atrium and ventricle
  Excludes: insertion of temporary transvenous pacemaker system
            replacement of atrial and/or ventricular lead(s) (37.76)

37.73 Initial insertion of transvenous lead [electrode] into atrium
  Excludes: insertion of temporary transvenous pacemaker system
            replacement of atrial and/or ventricular lead(s) (37.76)

37.74 Insertion or replacement of epicardial lead [electrode] into epicardium
  Insertion or replacement of epicardial by:
    sternotomy
    thoracotomy
  Excludes: replacement of atrial and/or ventricular lead(s) (37.76)

37.75 Revision of lead [electrode]
  Repair of electrode [removal with re-insertion]
  Repositioning of lead(s) (AICD) (cardiac device) (CRT-D) (CRT-P) (defibrillator) (pacemaker) (pacing) (sensing) [electrode]
  Revision of lead NOS
  Excludes: repositioning of temporary transvenous pacemaker system
  --omit code
37.76 Replacement of transvenous atrial and/or ventricular lead(s) [electrode]
Removal or abandonment of existing transvenous or epicardial lead(s) with transvenous lead(s) replacement
Excludes: replacement of epicardial lead [electrode] (37.74)

37.77 Removal of lead(s) [electrode] without replacement
Removal:
epicardial lead (transthoracic approach)
transvenous lead(s)
Excludes: removal of temporary transvenous pacemaker system --omit code
that with replacement of:
atrial and/or ventricular lead(s) [electrode] (37.76)
epicardial lead [electrode] (37.74)

37.78 Insertion of temporary transvenous pacemaker system
Excludes: intraoperative cardiac pacemaker (39.64)

37.79 Revision or relocation of pacemaker pocket
Debridement and reforming pocket (skin and subcutaneous tissue)
Insertion of loop recorder
Relocation of pocket [creation of new pocket] pacemaker or CRT-P
Removal of cardiac device/pulse generator without replacement
Removal of the implantable hemodynamic pressure sensor (lead) and monitor device
Removal without replacement of cardiac resynchronization defibrillator device
Repositioning of implantable hemodynamic pressure sensor (lead) and monitor device
Repositioning of pulse generator
Revision of cardioverter/defibrillator (automatic) pocket
Revision of pocket for intracardiac hemodynamic monitoring
Revision or relocation of CRT-D pocket
Revision or relocation of pacemaker, defibrillator, or other implanted cardiac device pocket
Excludes: removal of loop recorder (86.05)

37.8 Insertion, replacement, removal, and revision of pacemaker device
Note: Device testing during procedure --omit code
Code also any lead insertion, lead replacement, lead removal and/or lead revision (37.70-37.77)
Excludes: implantation of cardiac resynchronization pacemaker[CRT-P](00.50)
implantation or replacement of cardiac resynchronization pacemaker pulse generator only [CRT-P] (00.53)

37.80 Insertion of permanent pacemaker, initial or replacement, type of device not specified

37.81 Initial insertion of single-chamber device, not specified as rate responsive
Excludes: replacement of existing pacemaker device (37.85-37.87)
37.82 Initial insertion of single-chamber device, rate responsive
Rate responsive to physiologic stimuli other than atrial rate

*Excludes: replacement of existing pacemaker device (37.85-37.87)*

37.83 Initial insertion of dual-chamber device
Atrial ventricular sequential device

*Excludes: replacement of existing pacemaker device (37.85-37.87)*

37.85 Replacement of any type pacemaker device with single-chamber device, not specified as rate responsive

37.86 Replacement of any type of pacemaker device with single-chamber device, rate responsive
Rate responsive to physiologic stimuli other than atrial rate

37.87 Replacement of any type pacemaker device with dual-chamber device
Atrial ventricular sequential device

37.89 Revision or removal of pacemaker device
Removal without replacement of cardiac resynchronization pacemaker device [CRT-P]
Repair of pacemaker device

*Excludes: removal of temporary transvenous pacemaker system --omit code
replacement of existing pacemaker device (37.85-37.87)
replacement of existing pacemaker device with CRT-P pacemaker device (00.53)*

37.9 Other operations on heart and pericardium

37.90 Insertion of left atrial appendage device
Left atrial filter
Left atrial occluder
Transseptal catheter technique

37.91 Open chest cardiac massage

*Excludes: closed chest cardiac massage (99.63)*

37.92 Injection of therapeutic substance into heart

37.93 Injection of therapeutic substance into pericardium

37.94 Implantation or replacement of automatic cardioverter/defibrillator, total system [AICD]®
Implantation of defibrillator with leads (epicardial patches), formation of pocket (abdominal fascia) (subcutaneous), any transvenous leads, intraoperative procedures for evaluation of lead signals, and obtaining defibrillator threshold measurements
Techniques:
lateral thoracotomy
medial sternotomy
subxiphoid procedure

Note: Device testing during procedure --omit code
Code also extracorporeal circulation, if performed (39.61)
Code also any concomitant procedure [e.g., coronary bypass (36.00-36.19) or CCM, total system (17.51)]

*Excludes: implantation of cardiac resynchronization defibrillator, total system [CRT-D] (00.51)*
37.95 Implantation of automatic cardioverter/defibrillator lead(s) only

37.96 Implantation of automatic cardioverter/defibrillator pulse generator only

Note: Device testing during procedure --omit code

Excludes: implantation or replacement of cardiac resynchronization defibrillator, pulse generator device only [CRT-D] (00.54)

37.97 Replacement of automatic cardioverter/defibrillator lead(s) only

Excludes: replacement of epicardial lead [electrode] into epicardium (37.74)
replacement of transvenous lead [electrode] into left ventricular coronary venous system (00.52)

37.98 Replacement of automatic cardioverter/defibrillator pulse generator only

Excludes: replacement of cardiac resynchronization defibrillator, pulse generator device only [CRT-D] (00.54)

37.99 Other

Excludes: cardiac retraining (93.36)
conversion of cardiac rhythm (99.60-99.69)
implantation of prosthetic cardiac support device (37.41)
insertion of left atrial appendage device (37.90)
maze procedure (Cox-maze), open (37.33)
maze procedure, endovascular approach (37.34)
revision of lead(s) (37.75)
revision or relocation of pacemaker, defibrillator or other implanted cardiac device pocket (37.79)

38 Incision, excision, and occlusion of vessels

Code also
any application or administration of an adhesion barrier substance (99.77)
cardiopulmonary bypass [extracorporeal circulation] [heart-lung machine] (39.61)

Excludes: that of coronary vessels (00.66, 36.03, 36.04, 36.09, 36.10-36.99)

The following fourth-digit subclassification is for use with appropriate categories in section 38.0, 38.1, 38.3, 38.5, 38.6, 38.8, and 38.9 according to site. Valid fourth-digits are in [brackets] at the end of each code/description.

0 unspecified site
1 intracranial vessels
   Cerebral (anterior) (middle)
   Circle of Willis
   Posterior communicating artery

2 other vessels of head and neck
   Carotid artery (common) (external) (internal)
   Jugular vein (external) (internal)
### ICD-9-CM Tabular List of Procedures (FY10)

<table>
<thead>
<tr>
<th>Category</th>
<th>Procedures</th>
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<tbody>
<tr>
<td>3</td>
<td>upper limb vessels</td>
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<tr>
<td></td>
<td>Axillary</td>
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<td>Brachial</td>
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<td>Radial</td>
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<td>Ulnar</td>
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<tr>
<td>4</td>
<td>aorta</td>
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<td>5</td>
<td>other thoracic vessels</td>
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<td>Innominate</td>
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<td></td>
<td>Pulmonary (artery) (vein)</td>
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<tr>
<td></td>
<td>Subclavian</td>
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<tr>
<td></td>
<td>Vena cava, superior</td>
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<tr>
<td>6</td>
<td>abdominal arteries</td>
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<tr>
<td></td>
<td>Celiac</td>
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<td>Mesenteric</td>
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<td>Gastric</td>
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<td>Umbilical</td>
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<td><strong>Excludes:</strong></td>
<td>abdominal aorta (4)</td>
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<tr>
<td>7</td>
<td>abdominal veins</td>
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<td>Iliac</td>
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<td>Splenic</td>
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<td></td>
<td>Vena cava (inferior)</td>
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<td>lower limb arteries</td>
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<td>Femoral (common) (superficial)</td>
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<td>Popliteal</td>
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<td>Popliteal</td>
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<td>Tibial</td>
</tr>
</tbody>
</table>

#### 38.0 Incision of vessel

- **Embolectomy**
- **Thrombectomy**

**Excludes:** endovascular removal of obstruction from head and neck vessel(s) (39.74)

puncture or catheterization of any:
- artery (38.91, 38.98)
- vein (38.92-38.95, 38.99)

#### 38.1 Endarterectomy

- Endarterectomy with:
  - embolectomy
  - patch graft
  - temporary bypass during procedure
  - thrombectomy

Code also any:
- number of vascular stents inserted (00.45-00.48)
- number of vessels treated (00.40-00.43)
- procedure on vessel bifurcation (00.44)
38.2 Diagnostic procedures on blood vessels

Excludes: adjunct vascular system procedures (00.40-00.43)

38.21 Biopsy of blood vessel

38.22 Percutaneous angioscopy

Excludes: angioscopy of eye (95.12)

38.23 Intravascular spectroscopy

Includes: spectroscopy of both coronary and peripheral vessels
  Intravascular chemography
  Near infrared (NIR) spectroscopy

Excludes: intravascular imaging of:
  coronary vessels (00.24, 38.24)
  peripheral vessels (00.23, 38.25)

38.24 Intravascular imaging of coronary vessel(s) by optical coherence
tomography [OCT] ⚫

38.25 Intravascular imaging of non-coronary vessel(s) by optical
coherece tomography [OCT] ⚫

Excludes: intravascular imaging of coronary vessel(s) by OCT (38.24)

38.29 Other diagnostic procedures on blood vessels

Excludes: blood vessel thermography (88.86)
  circulatory monitoring (89.61-89.69)
  contrast:
    angiocardiography (88.50-88.58)
    arteriography (88.40-88.49)
    phlebography (88.60-88.67)
    impedance phlebography (88.68)
    peripheral vascular ultrasonography (88.77)
    plethysmogram (89.58)

38.3 Resection of vessel with anastomosis 🌴

[0-9] Angiectomy
  Excision of:
    aneurysm (arteriovenous) with anastomosis
    blood vessel (lesion) with anastomosis

38.4 Resection of vessel with replacement 🌴

[0-9] Angiectomy
  Excision of:
    aneurysm (arteriovenous) or blood vessel (lesion) with replacement
    Partial resection with replacement

Excludes: endovascular repair of aneurysm (39.71 - 39.79)

Requires the use of one of the following fourth-digit subclassifications to
detect site:

  0    unspecified site
  1    intracranial vessels
        Cerebral (anterior) (middle)
        Circle of Willis
        Posterior communicating artery
2 other vessels of head and neck
   Carotid artery (common) (external) (internal)
   Jugular vein (external) (internal)
3 upper limb vessels
   Axillary
   Brachial
   Radial
   Ulnar
4 aorta, abdominal
   Code also any thoracic vessel involvement (thoracoabdominal procedure) (38.45)
5 thoracic vessels
   Aorta (thoracic)
   Innominate
   Pulmonary (artery) (vein)
   Subclavian
   Vena cava, superior
   Code also any abdominal aorta involvement (thoracoabdominal procedure) (38.44)
6 abdominal arteries
   Celiac
   Mesenteric
   Gastric
   Renal
   Hepatic
   Splenic
   Iliac
   Umbilical
   **Excludes:** abdominal aorta (4)
7 abdominal veins
   Iliac
   Portal
   Renal
   Splenic
   Vena cava (inferior)
8 lower limb arteries
   Femoral (common) (superficial)
   Popliteal
   Tibial
9 lower limb veins
   Femoral
   Popliteal
   Saphenous
   Tibial

38.5 **Ligation and stripping of varicose veins**
   \[0-3,5,7,9\]
   **Excludes:** ligation of varices:
   esophageal (42.91)
   gastric (44.91)

38.6 **Other excision of vessel**
   \[0-9\]
   Excision of blood vessel (lesion) NOS
Excludes: excision of vessel for aortocoronary bypass (36.10-36.14)
excision with:
anastomosis (38.30-38.39)
graft replacement (38.40-38.49)
implant (38.40-38.49)

38.7 Interruption of the vena cava
Insertion of implant or sieve in vena cava
Ligation of vena cava (inferior) (superior)
Plication of vena cava

38.8 Other surgical occlusion of vessels
[0-9] Clamping of blood vessel
Division of blood vessel
Ligation of blood vessel
Occlusion of blood vessel
Excludes: adrenal vessels (07.43)
esophageal varices (42.91)
gastric or duodenal vessel for ulcer (44.40-44.49)
gastric varices (44.91)
meningeal vessel (02.13)
percutaneous transcatheater infusion embolization (99.29)
spermatic vein for varicocele (63.1)
surgical occlusion of vena cava (38.7)
that for chemoembolization (99.25)
that for control of (postoperative) hemorrhage:
anus (49.95)
bladder (57.93)
following vascular procedure (39.41)
nose (21.00-21.09)
prostate (60.94)
tonsil (28.7)
thyroid vessel (06.92)
transcatheter (infusion) (99.29)

38.9 Puncture of vessel
Excludes: that for circulatory monitoring (89.60-89.69)

38.91 Arterial catheterization

38.92 Umbilical vein catheterization

38.93 Venous catheterization, not elsewhere classified
Excludes: that for cardiac catheterization (37.21-37.23)
that for renal dialysis (38.95)

38.94 Venous cutdown

38.95 Venous catheterization for renal dialysis
Excludes: insertion of totally implantable vascular access device [VAD] (86.07)

38.98 Other puncture of artery
Excludes: that for:
arteriography (88.40-88.49)
coronary arteriography (88.55-88.57)
38.99 Other puncture of vein
Phlebotomy

*Excludes:* that for:
- angiography of veins *(88.60-88.68)*
- extracorporeal circulation *(39.61, 50.92)*
- injection or infusion of:
  - sclerosing solution *(39.92)*
  - therapeutic or prophylactic substance *(99.11-99.29)*
- perfusion *(39.96-39.97)*
- phlebography *(88.60-88.68)*
- transfusion *(99.01-99.09)*

39 Other operations on vessels

*Excludes:* those on coronary vessels *(36.03-36.99)*

39.0 Systemic to pulmonary artery shunt
- Descending aorta- pulmonary artery anastomosis (graft)
- Left to right anastomosis (graft)
- Subclavian- pulmonary anastomosis (graft)

Code also cardiopulmonary bypass [extracorporeal circulation] [heart- lung machine] *(39.61)*

39.1 Intra-abdominal venous shunt
- Anastomosis:
  - mesocaval
  - portacaval
  - portal vein to inferior vena cava
  - splenic and renal veins
  - transjugular intrahepatic portosystemic shunt (TIPS)

*Excludes:* peritoneovenous shunt *(54.94)*

39.2 Other shunt or vascular bypass
- Code also pressurized treatment of venous bypass graft [conduit] with pharmaceutical substance, if performed *(00.16)*

39.21 Caval- pulmonary artery anastomosis
- Code also cardiopulmonary bypass *(39.61)*

39.22 Aorta- subclavian- carotid bypass
- Bypass (arterial):
  - aorta to carotid and brachial
  - aorta to subclavian and carotid
  - carotid to subclavian

39.23 Other intrathoracic vascular shunt or bypass
- Intrathoracic (arterial) bypass graft NOS

*Excludes:* coronary artery bypass *(36.10-36.19)*

39.24 Aorta- renal bypass
39.25 Aorta-iliac-femoral bypass
Bypass:
- aortofemoral
- aortoiliac
- aortoiliac to popliteal
- aortopopliteal
- iliofemoral [iliac-femoral]

39.26 Other intra-abdominal vascular shunt or bypass
Bypass:
- aortoceliac
- aortic-superior mesenteric
- common hepatic-common iliac-renal
Intra-abdominal arterial bypass graft NOS
Excludes: peritoneovenous shunt (54.94)

39.27 Arteriovenostomy for renal dialysis
Anastomosis for renal dialysis
Formation of (peripheral) arteriovenous fistula for renal [kidney] dialysis
Code also any renal dialysis (39.95)

39.28 Extracranial-intracranial (EC-IC) vascular bypass

39.29 Other (peripheral) vascular shunt or bypass
Bypass (graft):
- axillary-brachial
- axillary-femoral [axillofemoral] (superficial)
- brachial
- femoral-femoral
- femoroperoneal
- femoropopliteal (arteries)
- femorotibial (anterior) (posterior)
- popliteal
- vascular NOS
Excludes: peritoneovenous shunt (54.94)

39.3 Suture of vessel
Repair of laceration of blood vessel
Excludes: any other vascular puncture closure device -- omit code suture of aneurysm (39.52)
that for control of hemorrhage (postoperative):
- anus (49.95)
- bladder (57.93)
following vascular procedure (39.41)
- nose (21.00-21.09)
- prostate (60.94)
- tonsil (28.7)

39.30 Suture of unspecified blood vessel

39.31 Suture of artery

39.32 Suture of vein
39.4 Revision of vascular procedure

39.41 Control of hemorrhage following vascular surgery

Excludes: that for control of hemorrhage (post operative):
- anus (49.95)
- bladder (57.93)
- nose (21.00-21.09)
- prostate (60.94)
- tonsil (28.7)

39.42 Revision of arteriovenous shunt for renal dialysis

Conversion of renal dialysis:
- end-to-end anastomosis to end-to-side
- end-to-side anastomosis to end-to-end
- vessel-to-vessel cannula to arteriovenous shunt

Removal of old arteriovenous shunt and creation of new shunt

Excludes: replacement of vessel-to-vessel cannula (39.94)

39.43 Removal of arteriovenous shunt for renal dialysis

Excludes: that with replacement [revision] of shunt (39.42)

39.49 Other revision of vascular procedure

Declotting (graft)

Revision of:
- anastomosis of blood vessel
- vascular procedure (previous)

39.5 Other repair of vessels

39.50 Angioplasty or atherectomy of other non-coronary vessel(s) ®

Percutaneous transluminal angioplasty (PTA) of non-coronary vessels:
- Lower extremity vessels
- Mesenteric artery
- Renal artery
- Upper extremity vessels

Code also any:
- injection or infusion of thrombolytic agent (99.10)
- Insertion of non-drug-eluting peripheral vessel stent(s) or stent grafts(s) (39.90)
- percutaneous insertion of carotid artery stent(s) (00.63)
- number of vascular stents inserted (00.45-00.48)
- number of vessels treated (00.40-00.43)
- procedure on vessel bifurcation (00.44)
- insertion of drug-eluting peripheral vessel stent (00.55)

Excludes: percutaneous angioplasty or atherectomy of precerebral or cerebral vessel(s) (00.61-00.62)

39.51 Clipping of aneurysm

Excludes: clipping of arteriovenous fistula (39.53)
39.52 Other repair of aneurysm
Repair of aneurysm by:
- coagulation
- electrocoagulation
- filipuncture
- methyl methacrylate
- suture
- wiring
- wrapping

Excludes: endovascular repair of aneurysm (39.71 - 39.79)
  re-entry operation (aorta) (39.54)
  that with:
    - graft replacement (38.40-38.49)
    - resection (38.30-38.49, 38.60-38.69)

39.53 Repair of arteriovenous fistula
Embolization of carotid cavernous fistula
Repair of arteriovenous fistula by:
- clipping
- coagulation
- ligation and division

Excludes: repair of :
  arteriovenous shunt for renal dialysis (39.42)
  head and neck vessels, endovascular approach (39.72)
  that with:
    - graft replacement (38.40-38.49)
    - resection (38.30-38.49, 38.60-38.69)

39.54 Re-entry operation (aorta)
Fenestration of dissecting aneurysm of thoracic aorta
Code also cardiopulmonary bypass [extracorporeal circulation]
  [heart-lung machine] (39.61)

39.55 Reimplantation of aberrant renal vessel

39.56 Repair of blood vessel with tissue patch graft
Excludes: that with resection (38.40-38.49)

39.57 Repair of blood vessel with synthetic patch graft
Excludes: that with resection (38.40-38.49)

39.58 Repair of blood vessel with unspecified type of patch graft
Excludes: that with resection (38.40-38.49)

39.59 Other repair of vessel
- Aorticotomolmonary window operation
- Arterioplasty NOS
- Construction of venous valves (peripheral)
- Plication of vein (peripheral)
- Reimplantation of artery

Code also cardiopulmonary bypass [extracorporeal circulation]
  [heart-lung machine] (39.61)
Excludes: interruption of the vena cava (38.7)  
reimplantation of renal artery (39.55)  
that with:  
graft (39.56-39.58)  
resection (38.30-38.49, 38.60-38.69)

39.6 Extracorporeal circulation and procedures auxiliary to heart surgery

39.61 Extracorporeal circulation auxiliary to open heart surgery  
Artificial heart and lung  
Cardiopulmonary bypass  
Pump oxygenator  
Excludes: extracorporeal hepatic assistance (50.92)  
extracorporeal membrane oxygenation [ECMO] (39.65)  
hemodialysis (39.95)  
percutaneous cardiopulmonary bypass (39.66)

39.62 Hypothermia (systemic) incidental to open heart surgery

39.63 Cardioplegia  
Arrest:  
anoxic  
circulatory

39.64 Intraoperative cardiac pacemaker  
Temporary pacemaker used during and immediately following cardiac surgery

39.65 Extracorporeal membrane oxygenation [ECMO]  
Excludes: extracorporeal circulation auxiliary to open heart surgery (39.61)  
percutaneous cardiopulmonary bypass (39.66)

39.66 Percutaneous cardiopulmonary bypass  
Closed chest  
Excludes: extracorporeal circulation auxiliary to open heart surgery (39.61)  
extracorporeal hepatic assistance (50.92)  
extracorporeal membrane oxygenation [ECMO] (39.65)  
hemodialysis (39.95)

39.7 Endovascular procedures on vessel(s)®  
Endoluminal repair  
Embolization  
Implantation  
Occlusion  
Removal  
Repair  
Excludes: angioplasty or atherectomy of other non-coronary vessel(s) (39.50)  
insertion of non-drug-eluting peripheral vessel stent(s) (39.90)  
other repair of aneurysm (39.52)  
percutaneous insertion of carotid artery stent(s) (00.63)  
percutaneous insertion of intracranial stent(s) (00.65)  
percutaneous insertion of other precerebral artery stent(s) (00.64)  
resection of abdominal aorta with replacement (38.44)  
resection of lower limb arteries with replacement (38.48)  
resection of thoracic aorta with replacement (38.45)
resection of upper limb vessels with replacement (38.43)

39.71 Endovascular implantation of graft in abdominal aorta ®
Endovascular repair of abdominal aortic aneurysm with graft
Stent graft(s)
Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)

39.72 Endovascular embolization or occlusion of head and neck vessels ®
Endograft(s)
Endovascular graft(s)
Liquid tissue adhesive (glue) embolization or occlusion
Other implant or substance for repair, embolization or occlusion
That for repair of aneurysm, arteriovenous malformation [AVM] or fistula
Excludes: mechanical thrombectomy of pre-cerebral and cerebral vessels (39.74)
embolization of head or neck vessels using bare coils (39.75)
embolization of head or neck vessels using bioactive coils (39.76)

39.73 Endovascular implantation of graft in thoracic aorta ®
Endograft(s)
Endovascular graft(s)
Endovascular repair of defect of thoracic aorta with graft(s) or device(s)
Stent graft(s) or device(s)
That for repair of aneurysm, dissection, or injury
Excludes: fenestration of dissecting aneurysm of thoracic aorta (39.54)
Code also intra-aneurysm sac pressure monitoring (intraoperative) (00.58)

39.74 Endovascular removal of obstruction from head and neck vessel(s) ®
Endovascular embolectomy
Endovascular thrombectomy of pre-cerebral and cerebral vessels
Mechanical embolectomy or thrombectomy
Code also: any injection or infusion of thrombolytic agent (99.10)
number of vessels treated (00.40-00.43)
procedure on vessel bifurcation (00.44)
Excludes: endarterectomy of intracranial vessels and other vessels of head and neck (38.11-38.12)
occlusive endovascular embolization of head or neck vessel(s) using bare coils (39.75)
occlusive endovascular embolization of head or neck vessel(s) using bioactive coils (39.76)
open embolectomy or thrombectomy (38.01-38.02)

39.75 Endovascular embolization or occlusion of vessel(s) of head or neck using bare coils
Bare metal coils
Bare platinum coils [BPC]
That for treatment of aneurysm, arteriovenous malformation [AVM] or fistula
39.76 Endovascular embolization or occlusion of vessel(s) of head or neck using bioactive coils

Biodegradable inner luminal polymer coils
Coil embolization or occlusion utilizing bioactive coils
Coils containing polyglycolic acid [PGA]
That for treatment of aneurysm, arteriovenous malformation [AVM] or fistula

39.79 Other endovascular procedures on other vessels

Other coil embolization or occlusion
Endograft(s)
Endovascular graft(s)
Liquid tissue adhesive (glue) embolization or occlusion
Other implant or substance for repair, embolization or occlusion
Repair of aneurysm

Excludes: abdominal aortic aneurysm resection [AAA] (38.44)
endovascular implantation of graft in abdominal aorta (39.71)
external iliac artery aneurysm resection (38.46)
endovascular embolization or occlusion of head and neck vessels, bare metal coils (39.75)
external iliac artery aneurysm resection (38.46)
external iliac artery aneurysm resection (38.46)
endovascular embolization or occlusion of head and neck vessels, bioactive coils (39.76)
insertion of drug-eluting peripheral vessel stent(s) (00.55)
insertion of non-drug-eluting peripheral vessel(s) (for other than aneurysm repair) (39.90)
nondrainage repair of arteriovenous fistula (39.53)
other surgical occlusion of vessels -see category 38.8
percutaneous transcatheter infusion (99.29)
thoracic aortic aneurysm resection (38.45)
thoracic aortic aneurysm resection (38.45)
transcatheter embolization for gastrointestinal bleeding (44.44)

39.8 Operations on carotid body, carotid sinus and other vascular bodies

Chemodectomy
Denervation of:
  aortic body
carotid body
Glomectomy, carotid
Electronic stimulator
Implantation or replacement of carotid sinus baroreflex activation device

Excludes: excision of glomus jugulare (20.51)
replacement of carotid sinus lead(s) only (04.92)

39.9 Other operations on vessels

39.90 Insertion of non-drug-eluting peripheral vessel (non-coronary) stent(s)

Bare stent(s)
Bonded stent(s)
Drug-coated stent(s), i.e., heparin coated
Endograft(s)
Endovascular graft(s)
Endovascular recanalization techniques
Stent graft(s)
Code also any non-coronary angioplasty or atherectomy (39.50)
number of vascular stents inserted (00.45- 00.48)
number of vessels treated (00.40- 00.43)
procedure on vessel bifurcation (00.44)

Excludes: insertion of drug-eluting peripheral vessel stent(s) (00.55)
percutaneous insertion of carotid artery stent(s) (00.63)
percutaneous insertion of intracranial stent(s) (00.65)
percutaneous insertion of other precerebral artery stent(s) (00.64)
that for aneurysm repair (39.71 - 39.79)

39.91 Freeing of vessel
Dissection and freeing of adherent tissue:
artery- vein- nerve bundle
vascular bundle

39.92 Injection of sclerosing agent into vein
Excludes: injection:
esophageal varices (42.33)
hemorrhoids (49.42)

39.93 Insertion of vessel- to- vessel cannula
Formation of:
arteriovenous:
fistula by external cannula
shunt by external cannula

Code also any renal dialysis (39.95)

39.94 Replacement of vessel- to- vessel cannula
Revision of vessel-to-vessel cannula

39.95 Hemodialysis
Artificial kidney
Hemodiafiltration
Hemofiltration
Renal dialysis

Excludes: peritoneal dialysis (54.98)

39.96 Total body perfusion
Code also substance perfused (99.21- 99.29)

39.97 Other perfusion
Perfusion NOS
Perfusion, local [regional] of:
carotid artery
coronary artery
head
lower limb
neck
upper limb

Code also substance perfused (99.21- 99.29)
Excludes: perfusion of:
  kidney (55.95)
  large intestine (46.96)
  liver (50.93)
  small intestine (46.95)
  SuperSaturated oxygen therapy (00.49)

39.98 Control of hemorrhage, not otherwise specified
Angiotripsy
Control of postoperative hemorrhage NOS
Venotripsy

Excludes: control of hemorrhage (postoperative):
  anus (49.95)
  bladder (57.93)
  following vascular procedure (39.41)
  nose (21.00-21.09)
  prostate (60.94)
  tonsil (28.7)
  that by:
    ligation (38.80-38.89)
    suture (39.30-39.32)

39.99 Other operations on vessels

Excludes: injection or infusion of therapeutic or prophylactic substance (99.11-99.29)
  transfusion of blood and blood components (99.01-99.09)
40 Operations on lymphatic system

40.0 Incision of lymphatic structures

40.1 Diagnostic procedures on lymphatic structures

40.11 Biopsy of lymphatic structure

40.19 Other diagnostic procedures on lymphatic structures

*Excludes:* lymphangiogram:
- abdominal (88.04)
- cervical (87.08)
- intrathoracic (87.34)
- lower limb (88.36)
- upper limb (88.34)
- microscopic examination of specimen (90.71-90.79)
- radioisotope scan (92.16)
- thermography (88.89)

40.2 Simple excision of lymphatic structure

*Excludes:* biopsy of lymphatic structure (40.11)

40.21 Excision of deep cervical lymph node

40.22 Excision of internal mammary lymph node

40.23 Excision of axillary lymph node

40.24 Excision of inguinal lymph node

40.29 Simple excision of other lymphatic structure

Excision of:
- cystic hygroma
- lymphangioma
- Simple lymphadenectomy

40.3 Regional lymph node excision

Extended regional lymph node excision
Regional lymph node excision with excision of lymphatic drainage area
including skin, subcutaneous tissue, and fat

40.4 Radical excision of cervical lymph nodes

Resection of cervical lymph nodes down to muscle and deep fascia

*Excludes:* that associated with radical laryngectomy (30.4)

40.40 Radical neck dissection, not otherwise specified

40.41 Radical neck dissection, unilateral

40.42 Radical neck dissection, bilateral

40.5 Radical excision of other lymph nodes

*Excludes:* that associated with radical mastectomy (85.45-85.48)

40.50 Radical excision of lymph nodes, not otherwise specified

Radical (lymph) node dissection NOS

40.51 Radical excision of axillary lymph nodes

40.52 Radical excision of periaortic lymph nodes
40.53 Radical excision of iliac lymph nodes
40.54 Radical groin dissection
40.59 Radical excision of other lymph nodes

*Excludes: radical neck dissection (40.40-40.42)*

40.6 Operations on thoracic duct
40.61 Cannulation of thoracic duct
40.62 Fistulization of thoracic duct
40.63 Closure of fistula of thoracic duct
40.64 Ligation of thoracic duct
40.69 Other operations on thoracic duct

40.9 Other operations on lymphatic structures
- Anastomosis of peripheral lymphatics
- Dilation of peripheral lymphatics
- Ligation of peripheral lymphatics
- Obliteration of peripheral lymphatics
- Reconstruction of peripheral lymphatics
- Repair of peripheral lymphatics
- Transplantation of peripheral lymphatics
- Correction of lymphedema of limb, NOS

*Excludes: reduction of elephantiasis of scrotum (61.3)*

41 Operations on bone marrow and spleen

41.0 Bone marrow or hematopoietic stem cell transplant

*Note: To report donor source -- see codes 00.91-00.93*

*Excludes: aspiration of bone marrow from donor (41.91)*

41.00 Bone marrow transplant, not otherwise specified
41.01 Autologous bone marrow transplant without purging

*Excludes: that with purging (41.09)*

41.02 Allogeneic bone marrow transplant with purging
Allograft of bone marrow with in vitro removal (purging) of T-cells

41.03 Allogeneic bone marrow transplant without purging
Allograft of bone marrow NOS

41.04 Autologous hematopoietic stem cell transplant without purging

*Excludes: that with purging (41.07)*

41.05 Allogeneic hematopoietic stem cell transplant without purging

*Excludes: that with purging (41.08)*

41.06 Cord blood stem cell transplant

41.07 Autologous hematopoietic stem cell transplant with purging
Cell depletion

41.08 Allogeneic hematopoietic stem cell transplant
Cell depletion

41.09 Autologous bone marrow transplant with purging
With extracorporeal purging of malignant cells from marrow
Cell depletion
41.1  Puncture of spleen
   
   *Excludes: aspiration biopsy of spleen (41.32)*

41.2  Splenotomy

41.3  Diagnostic procedures on bone marrow and spleen

   41.31  Biopsy of bone marrow

   41.32  Closed [aspiration] [percutaneous] biopsy of spleen

   41.33  Open biopsy of spleen

   41.38  Other diagnostic procedures on bone marrow
   
   *Excludes: microscopic examination of specimen from bone marrow (90.61-90.69)*
   
   *radioisotope scan (92.05)*

41.39  Other diagnostic procedures on spleen

   *Excludes: microscopic examination of specimen from spleen (90.61-90.69)*

   *radioisotope scan (92.05)*

41.4  Excision or destruction of lesion or tissue of spleen

   Code also any application or administration of an adhesion barrier substance (99.77)

   *Excludes: excision of accessory spleen (41.93)*

41.41  Marsupialization of splenic cyst

41.42  Excision of lesion or tissue of spleen

   *Excludes: biopsy of spleen (41.32-41.33)*

41.43  Partial splenectomy

41.5  Total splenectomy

   Splenectomy NOS

   Code also any application or administration of an adhesion barrier substance (99.77)

41.9  Other operations on spleen and bone marrow

   Code also any application or administration of an adhesion barrier substance (99.77)

   41.91  Aspiration of bone marrow from donor for transplant

   *Excludes: biopsy of bone marrow (41.31)*

41.92  Injection into bone marrow

   *Excludes: bone marrow transplant (41.00-41.03)*

41.93  Excision of accessory spleen

41.94  Transplantation of spleen

41.95  Repair and plastic operations on spleen

41.98  Other operations on bone marrow

41.99  Other operations on spleen
9. OPERATIONS ON THE DIGESTIVE SYSTEM (42-54)

42  Operations on esophagus

42.0  Esophagotomy

  42.01  Incision of esophageal web
  42.09  Other incision of esophagus

  Esophagotomy NOS

  Excludes: esophagomyotomy (42.7)
            esophagostomy (42.10-42.19)

42.1  Esophagostomy

  42.10  Esophagostomy, not otherwise specified
  42.11  Cervical esophagostomy
  42.12  Exteriorization of esophageal pouch
  42.19  Other external fistulization of esophagus

  Thoracic esophagostomy
  Code also any resection (42.40-42.42)

42.2  Diagnostic procedures on esophagus

  42.21  Operative esophagoscopy by incision
  42.22  Esophagoscopy through artificial stoma

  Excludes: that with biopsy (42.24)

  42.23  Other esophagoscopy

  Excludes: that with biopsy (42.24)

  42.24  Closed [endoscopic] biopsy of esophagus

  Brushing or washing for specimen collection
  Esophagoscopy with biopsy
  Suction biopsy of the esophagus

  Excludes: esophagogastroduodenoscopy [EGD] with closed biopsy (45.16)

42.25  Open biopsy of esophagus

42.29  Other diagnostic procedures on esophagus

  Excludes: barium swallow (87.61)
            esophageal manometry (89.32)
            microscopic examination of specimen from esophagus (90.81-90.89)

42.3  Local excision or destruction of lesion or tissue of esophagus

  42.31  Local excision of esophageal diverticulum
  42.32  Local excision of other lesion or tissue of esophagus

  Excludes: biopsy of esophagus (42.24-42.25)
            esophageal fistulectomy (42.84)
42.33 Endoscopic excision or destruction of lesion or tissue of esophagus
Ablation of esophageal neoplasm by endoscopic approach
Control of esophageal bleeding by endoscopic approach
Esophageal polypectomy by endoscopic approach
Esophageal varices by endoscopic approach
Injection of esophageal varices by endoscopic approach
Excludes: biopsy of esophagus (42.24-42.25)
fistulectomy (42.84)
open ligation of esophageal varices (42.91)

42.39 Other destruction of lesion or tissue of esophagus
Excludes: that by endoscopic approach (42.33)

42.4 Excision of esophagus
Excludes: esophagogastrectomy NOS (43.99)

42.40 Esophagectomy, not otherwise specified

42.41 Partial esophagectomy
Code also any synchronous:
anastomosis other than end-to-end (42.51-42.69)
esophagostomy (42.10-42.19)
gastrostomy (43.11-43.19)

42.42 Total esophagectomy
Code also any synchronous:
gastrostomy (43.11-43.19)
interposition or anastomosis other than end-to-end (42.51-42.69)
Excludes: esophagogastrectomy (43.99)

42.5 Intrathoracic anastomosis of esophagus
Code also any synchronous:
esophagectomy (42.40-42.42)
gastrostomy (43.1)

42.51 Intrathoracic esophagoesophagostomy

42.52 Intrathoracic esophagogastrostomy

42.53 Intrathoracic esophageal anastomosis with interposition of small bowel

42.54 Other intrathoracic esophagoenterostomy
Anastomosis of esophagus to intestinal segment NOS

42.55 Intrathoracic esophageal anastomosis with interposition of colon

42.56 Other intrathoracic esophagocolostomy
Esophagocolostomy NOS

42.58 Intrathoracic esophageal anastomosis with other interposition
Construction of artificial esophagus
Retrosternal formation of reversed gastric tube

42.59 Other intrathoracic anastomosis of esophagus
### 42.6 Antesternal anastomosis of esophagus

Code also any synchronous:
- esophagectomy (42.40-42.42)
- gastrostomy (43.1)

<table>
<thead>
<tr>
<th>Code</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>42.61</td>
<td>Antesternal esophagoesophagostomy</td>
</tr>
<tr>
<td>42.62</td>
<td>Antesternal esophagogastrostomy</td>
</tr>
<tr>
<td>42.63</td>
<td>Antesternal esophageal anastomosis with interposition of small bowel</td>
</tr>
<tr>
<td>42.64</td>
<td>Other antesternal esophagoenterostomy</td>
</tr>
</tbody>
</table>
  - Antethoracic:
    - esphagoenterostomy
    - esphagoileostomy
    - esphagojejunostomy
| 42.65 | Antesternal esophageal anastomosis with interposition of colon |
| 42.66 | Other antesternal esphagocolostomy |
  - Antethoracic esophagocolostomy |
| 42.68 | Other antesternal esophageal anastomosis with interposition |
| 42.69 | Other antesternal anastomosis of esophagus |

### 42.7 Esophagomyotomy

### 42.8 Other repair of esophagus

<table>
<thead>
<tr>
<th>Code</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>42.81</td>
<td>Insertion of permanent tube into esophagus</td>
</tr>
<tr>
<td>42.82</td>
<td>Suture of laceration of esophagus</td>
</tr>
<tr>
<td>42.83</td>
<td>Closure of esophagostomy</td>
</tr>
<tr>
<td>42.84</td>
<td>Repair of esophageal fistula, not elsewhere classified</td>
</tr>
</tbody>
</table>
  - Excludes: repair of fistula:
    - bronchoesophageal (33.42)
    - esphagopleurocutaneous (34.73)
    - pharyngoesophageal (29.53)
    - tracheoesophageal (31.73)
| 42.85 | Repair of esophageal stricture |
| 42.86 | Production of subcutaneous tunnel without esophageal anastomosis |
| 42.87 | Other graft of esophagus |
  - Excludes: antesternal esophageal anastomosis with interposition of:
    - colon (42.65)
    - small bowel (42.63)
    - antesternal esophageal anastomosis with other interposition (42.68)
    - intrathoracic esophageal anastomosis with interposition of:
      - colon (42.55)
      - small bowel (42.53)
      - intrathoracic esophageal anastomosis with other interposition (42.58) |
| 42.89 | Other repair of esophagus |
42.9 Other operations on esophagus

42.91 Ligation of esophageal varices

*Excludes:* that by endoscopic approach (42.33)

42.92 Dilation of esophagus

Dilation of cardiac sphincter

*Excludes:* intubation of esophagus (96.03, 96.06-96.08)

42.99 Other

*Excludes:* insertion of Sengstaken tube (96.06)

intubation of esophagus (96.03, 96.06-96.08)

removal of intraluminal foreign body from esophagus without incision (98.02)

tamponade of esophagus (96.06)

43 Incision and excision of stomach

Code also any application or administration of an adhesion barrier substance (99.77)

43.0 Gastrostomy

*Excludes:* gastrostomy (43.11-43.19)

that for control of hemorrhage (44.49)

43.1 Gastrostomy

43.11 Percutaneous [endoscopic] gastrostomy [PEG]

Percutaneous transabdominal gastrostomy

43.19 Other gastrostomy

*Excludes:* percutaneous [endoscopic] gastrostomy [PEG] (43.11)

43.3 Pyloromyotomy

43.4 Local excision or destruction of lesion or tissue of stomach

43.41 Endoscopic excision or destruction of lesion or tissue of stomach

Gastric polypectomy by endoscopic approach

Gastric varices by endoscopic approach

*Excludes:* biopsy of stomach (44.14-44.15)

control of hemorrhage (44.43)

open ligation of gastric varices (44.91)

43.42 Local excision of other lesion or tissue of stomach

*Excludes:* biopsy of stomach (44.14-44.15)

gastric fistulectomy (44.62-44.63)

partial gastrectomy (43.5-43.89)

43.49 Other destruction of lesion or tissue of stomach

*Excludes:* that by endoscopic approach (43.41)

43.5 Partial gastrectomy with anastomosis to esophagus

Proximal gastrectomy
43.6 Partial gastrectomy with anastomosis to duodenum
   Billroth I operation
   Distal gastrectomy
   Gastropyloroplasty

43.7 Partial gastrectomy with anastomosis to jejunum
   Billroth II operation

43.8 Other partial gastrectomy
   43.81 Partial gastrectomy with jejunal transposition
      Henley jejunal transposition operation
      Code also any synchronous intestinal resection (45.51)
   43.89 Other
      Partial gastrectomy with bypass gastrogastrostomy
      Sleeve resection of stomach

43.9 Total gastrectomy
   43.91 Total gastrectomy with intestinal interposition
   43.99 Other total gastrectomy
      Complete gastroduodenectomy
      Esophagoduodenostomy with complete gastrectomy
      Esophagogastrectomy NOS
      Esophagojejunostomy with complete gastrectomy
      Radical gastrectomy

44 Other operations on stomach
   Code also any application or administration of an adhesion barrier substance (99.77)

44.0 Vagotomy
   44.00 Vagotomy, not otherwise specified
      Division of vagus nerve NOS
   44.01 Truncal vagotomy
   44.02 Highly selective vagotomy
      Parietal cell vagotomy
      Selective proximal vagotomy
   44.03 Other selective vagotomy

44.1 Diagnostic procedures on stomach
   44.11 Transabdominal gastroscopy
      Intraoperative gastroscopy
      Excludes: that with biopsy (44.14)
   44.12 Gastroscopy through artificial stoma
      Excludes: that with biopsy (44.14)
   44.13 Other gastroscopy
      Excludes: that with biopsy (44.14)
   44.14 Closed [endoscopic] biopsy of stomach
      Brushing or washing for specimen collection
      Excludes: esophagogastroduodenoscopy [EGD] with closed biopsy (45.16)
44.15 Open biopsy of stomach
44.19 Other diagnostic procedures on stomach
   Excludes: gastric lavage (96.33)
   microscopic examination of specimen from stomach (90.81-90.89)
   upper GI series (87.62)

44.2 Pyloroplasty
44.21 Dilation of pylorus by incision
44.22 Endoscopic dilation of pylorus
   Dilation with balloon endoscope
   Endoscopic dilation of gastrojejunostomy site
44.29 Other pyloroplasty
   Pyloroplasty NOS
   Revision of pylorus

44.3 Gastroenterostomy without gastrectomy
44.31 High gastric bypass
   Printen and Mason gastric bypass
44.32 Percutaneous [endoscopic] gastrojejunostomy ®
   Bypass:
   gastroduodenostomy
   gastroenterostomy
   gastrogastrostomy
   Excludes: percutaneous (endoscopic) feeding jejunostomy (46.32)
44.38 Laparoscopic gastroenterostomy
   Bypass:
   gastroduodenostomy
   gastroenterostomy
   gastrogastrostomy
   Laparoscopic gastrojejunostomy without gastrectomy NEC
   Excludes: gastroenterostomy, open approach (44.39)
44.39 Other gastroenterostomy
   Bypass:
   gastroduodenostomy
   gastroenterostomy
   gastrogastrostomy
   Gastrojejunostomy without gastrectomy NOS

44.4 Control of hemorrhage and suture of ulcer of stomach or duodenum
44.40 Suture of peptic ulcer, not otherwise specified
44.41 Suture of gastric ulcer site
   Excludes: ligation of gastric varices (44.91)
44.42 Suture of duodenal ulcer site
44.43 Endoscopic control of gastric or duodenal bleeding
44.44 Transcatheter embolization for gastric or duodenal bleeding
   Excludes: surgical occlusion of abdominal vessels (38.86-38.87)
44.49 Other control of hemorrhage of stomach or duodenum
   That with gastrotomy

44.5 Revision of gastric anastomosis
   Closure of:
   - gastric anastomosis
   - gastroduodenostomy
   - gastrojejunostomy
   - Pantaloon operation

44.6 Other repair of stomach

44.61 Suture of laceration of stomach
   Excludes: that of ulcer site (44.41)

44.62 Closure of gastrostomy

44.63 Closure of other gastric fistula
   Closure of:
   - gastrocolic fistula
   - gastrojejunocolic fistula

44.64 Gastropexy

44.65 Esophagogastroplasty
   - Belsey operation
   - Esophagus and stomach cardioplasty

44.66 Other procedures for creation of esophagogastriatic sphincteric competence
   - Fundoplication
   - Gastric cardioplasty
   - Nissen's fundoplication
   - Restoration of cardio- esophageal angle
   Excludes: that by laparoscopy (44.67)

44.67 Laparoscopic procedures for creation of esophagogastriatic sphincteric competence
   - Fundoplication
   - Gastric cardioplasty
   - Nissen's fundoplication
   - Restoration of cardio- esophageal angle

44.68 Laparoscopic gastroplasty
   - Banding
   - Silastic vertical banding
   - Vertical banded gastroplasty (VBG)
   Code also any synchronous laparoscopic gastroenterostomy (44.38)
   Excludes: insertion, laparoscopic adjustable gastric band
   (restrictive procedure) (44.95)
   other repair of stomach, open approach (44.61-44.65, 44.69)

44.69 Other
   - Inversion of gastric diverticulum
   - Repair of stomach NOS
44.9 Other operations on stomach

44.91 Ligation of gastric varices

*Excludes: that by endoscopic approach (43.41)*

44.92 Intraoperative manipulation of stomach

Reduction of gastric volvulus

44.93 Insertion of gastric bubble (balloon)

44.94 Removal of gastric bubble (balloon)

44.95 Laparoscopic gastric restrictive procedure

Adjustable gastric band and port insertion

*Excludes: laparoscopic gastroplasty (44.68) other repair of stomach (44.69)*

44.96 Laparoscopic revision of gastric restrictive procedure

Revision or replacement of:

- adjustable gastric band
- subcutaneous gastric port device

44.97 Laparoscopic removal of gastric restrictive device(s)

Removal of either or both:

- adjustable gastric band
- subcutaneous port device

*Excludes: nonoperative removal of gastric restrictive device(s) (97.86) open removal of gastric restrictive device(s) (44.99)*

44.98 (Laparoscopic) adjustment of size of adjustable gastric restrictive device

Infusion of saline for device tightening
Withdrawal of saline for device loosening
Code also any:

- abdominal ultrasound (88.76)
- abdominal wall fluoroscopy (88.09)
- barium swallow (87.61)

44.99 Other

*Excludes: change of gastrostomy tube (97.02) dilation of cardiac sphincter (42.92) gastric:

- cooling (96.31)
- freezing (96.32)
- gavage (96.35)
- hypothermia (96.31)
- lavage (96.33)
- insertion of nasogastric tube (96.07)
- irrigation of gastrostomy (96.36)
- irrigation of nasogastric tube (96.34)
- removal of:
  - gastrostomy tube (97.51)
  - intraluminal foreign body from stomach without incision (98.03)
- replacement of:
  - gastrostomy tube (97.02)
  - (naso-)gastric tube (97.01)
45  Incision, excision, and anastomosis of intestine
   Code also any application or administration of an adhesion barrier substance (99.77)

45.0  Enterotomy
   Excludes: duodencholedochotomy (51.41-51.42, 51.51)
   that for destruction of lesion (45.30-45.34)
   that of exteriorized intestine (46.14, 46.24, 46.31)

45.00  Incision of intestine, not otherwise specified
45.01  Incision of duodenum
45.02  Other incision of small intestine
45.03  Incision of large intestine
   Excludes: proctotomy (48.0)

45.1  Diagnostic procedures on small intestine
   Code also any laparotomy (54.11-54.19)

45.11  Transabdominal endoscopy of small intestine
   Intraoperative endoscopy of small intestine
   Excludes: that with biopsy (45.14)

45.12  Endoscopy of small intestine through artificial stoma
   Excludes: that with biopsy (45.14)

45.13  Other endoscopy of small intestine
   Esophagogastrroduodenoscopy [EGD]
   Excludes: that with biopsy (45.14, 45.16)

45.14  Closed [endoscopic] biopsy of small intestine
   Brushing or washing for specimen collection
   Excludes: esophagogastrroduodenoscopy [EGD] with closed biopsy (45.16)

45.15  Open biopsy of small intestine

45.16  Esophagogastrroduodenoscopy [EGD] with closed biopsy
   Biopsy of one or more sites involving esophagus, stomach, and/or duodenum

45.19  Other diagnostic procedures on small intestine
   Excludes: microscopic examination of specimen from small intestine (90.91-90.99)
   radioisotope scan (92.04)
   ultrasonography (88.74)
   x-ray (87.61-87.69)

45.2  Diagnostic procedures on large intestine
   Code also any laparotomy (54.11-54.19)

45.21  Transabdominal endoscopy of large intestine
   Intraoperative endoscopy of large intestine
   Excludes: that with biopsy (45.25)

45.22  Endoscopy of large intestine through artificial stoma
   Excludes: that with biopsy (45.25)
45.23 **Colonoscopy**
Flexible fiberoptic colonoscopy

*Excludes: endoscopy of large intestine through artificial stoma (45.22)*
flexible sigmoidoscopy (45.24)
rigid proctosigmoidoscopy (48.23)
transabdominal endoscopy of large intestine (45.21)

45.24 **Flexible sigmoidoscopy**
Endoscopy of descending colon

*Excludes: rigid proctosigmoidoscopy (48.23)*

45.25 **Closed [endoscopic] biopsy of large intestine**
Biopsy, closed, of unspecified intestinal site
Brushing or washing for specimen collection
Colonoscopy with biopsy

*Excludes: proctosigmoidoscopy with biopsy (48.24)*

45.26 **Open biopsy of large intestine**

45.27 **Intestinal biopsy, site unspecified**

45.28 **Other diagnostic procedures on large intestine**

45.29 **Other diagnostic procedures on intestine, site unspecified**

*Excludes: microscopic examination of specimen (90.91-90.99)*
scan and radioisotope function study (92.04)
ultrasonography (88.74)
x-ray (87.61-87.69)

45.3 **Local excision or destruction of lesion or tissue of small intestine**

45.30 **Endoscopic excision or destruction of lesion of duodenum**

*Excludes: biopsy of duodenum (45.14-45.15)*
control of hemorrhage (44.43)
fistulectomy (46.72)

45.31 **Other local excision of lesion of duodenum**

*Excludes: biopsy of duodenum (45.14-45.15)*
fistulectomy (46.72)
multiple segmental resection (45.61)
that by endoscopic approach (45.30)

45.32 **Other destruction of lesion of duodenum**

*Excludes: that by endoscopic approach (45.30)*

45.33 **Local excision of lesion or tissue of small intestine, except duodenum**
Excision of redundant mucosa of ileostomy

*Excludes: biopsy of small intestine (45.14-45.15)*
fistulectomy (46.74)
multiple segmental resection (45.61)

45.34 **Other destruction of lesion of small intestine, except duodenum**
45.4 Local excision or destruction of lesion or tissue of large intestine

**45.41** Excision of lesion or tissue of large intestine

- Excision of redundant mucosa of colostomy

*Excludes:* biopsy of large intestine (45.25-45.27)
- endoscopic polypectomy of large intestine (45.42)
- fistulectomy (46.76)
- multiple segmental resection (17.31, 45.71)
- that by endoscopic approach (45.42-45.43)

**45.42** Endoscopic polypectomy of large intestine

*Excludes:* that by open approach (45.41)

**45.43** Endoscopic destruction of other lesion or tissue of large intestine

- Endoscopic ablation of tumor of large intestine
- Endoscopic control of colonic bleeding

*Excludes:* endoscopic polypectomy of large intestine (45.42)

**45.49** Other destruction of lesion of large intestine

*Excludes:* that by endoscopic approach (45.43)

45.5 Isolation of intestinal segment

Code also any synchronous:
- anastomosis other than end-to-end (45.90-45.94)
- enterostomy (46.10-46.39)

**45.50** Isolation of intestinal segment, not otherwise specified

- Isolation of intestinal pedicle flap
- Reversal of intestinal segment

**45.51** Isolation of segment of small intestine

- Isolation of ileal loop
- Resection of small intestine for interposition

**45.52** Isolation of segment of large intestine

- Resection of colon for interposition

45.6 Other excision of small intestine

Code also any synchronous:
- anastomosis other than end-to-end (45.90-45.93, 45.95)
- colostomy (46.10-46.13)
- enterostomy (46.10-46.39)

*Excludes:* cecectomy (17.32, 45.72)
- Enterocolectomy (17.39, 45.79)
- gastroduodenectomy (43.6-43.99)
- ileocolectomy (17.33, 45.73)
- pancreatoduodenectomy (52.51-52.7)

**45.61** Multiple segmental resection of small intestine

Segmental resection for multiple traumatic lesions of small intestine

**45.62** Other partial resection of small intestine

- Duodenectomy
- Ileectomy
- Jejunectomy

*Excludes:* duodenectomy with synchronous pancreatectomy (52.51-52.7)
- resection of cecum and terminal ileum (17.32, 45.72)
**45.63** Total removal of small intestine

**45.7** Open and other partial excision of large intestine 

Code also any synchronous:
- anastomosis other than end- to-end (45.92-45.94)
- enterostomy (46.10-46.39)

*Excludes: laparoscopic partial excision of large intestine (17.31-17.39)*

**45.71** Open and other multiple segmental resection of large intestine 

Segmental resection for multiple traumatic lesions of large intestine

**45.72** Open and other cecectomy 

Resection of cecum and terminal ileum

**45.73** Open and other right hemicolecction 

Ileocolectomy

Right radical colectomy

**45.74** Open and other resection of transverse colon 

**45.75** Open and other left hemicolecction 

*Excludes: proctosigmoidectomy (48.41-48.69) second stage Mikulicz operation (46.04)*

**45.76** Open and other sigmoidecction 

**45.79** Other and unspecified partial excision of large intestine 

Enterocolectomy NEC

**45.8** Total intra-abdominal colectomy 

Excision of cecum, colon, and sigmoid

*Excludes: coloproctectomy (48.41-48.69)*

**45.81** Laparoscopic total intra-abdominal colectomy

**45.82** Open total intra-abdominal colectomy

**45.83** Other and unspecified total intra-abdominal colectomy

**45.9** Intestinal anastomosis 

Code also any synchronous resection (45.31-45.8, 48.41-48.69)

*Excludes: end-to-end anastomosis --omit code*

**45.90** Intestinal anastomosis, not otherwise specified

**45.91** Small- to-small intestinal anastomosis

**45.92** Anastomosis of small intestine to rectal stump 

Hampton procedure

**45.93** Other small- to-large intestinal anastomosis

**45.94** Large- to-large intestinal anastomosis

*Excludes: rectorectostomy (48.74)*

**45.95** Anastomosis to anus 

Formation of endorectal ileal pouch (H-pouch) (J-pouch) (S-pouch) with anastomosis of small intestine to anus
46 Other operations on intestine
Code also any application or administration of an adhesion barrier substance (99.77)

46.0 Exteriorization of intestine
Includes: loop enterostomy
multiple stage resection of intestine

46.01 Exteriorization of small intestine
Loop ileostomy

46.02 Resection of exteriorized segment of small intestine

46.03 Exteriorization of large intestine
Exteriorization of intestine NOS
First stage Mikulicz exteriorization of intestine
Loop colostomy

46.04 Resection of exteriorized segment of large intestine
Resection of exteriorized segment of intestine NOS
Second stage Mikulicz operation

46.1 Colostomy
Code also any synchronous resection (45.49, 45.71-45.79, 45.8)

Excludes: loop colostomy (46.03)
that with abdominoperineal resection of rectum (48.5)
that with synchronous anterior rectal resection (48.62)

46.10 Colostomy, not otherwise specified
46.11 Temporary colostomy
46.13 Permanent colostomy
46.14 Delayed opening of colostomy

46.2 Ileostomy
Code also any synchronous resection (45.34, 45.61-45.63)

Excludes: loop ileostomy (46.01)

46.20 Ileostomy, not otherwise specified
46.21 Temporary ileostomy
46.22 Continent ileostomy
46.23 Other permanent ileostomy
46.24 Delayed opening of ileostomy

46.3 Other enterostomy
Code also any synchronous resection (45.61-45.8)

46.31 Delayed opening of other enterostomy

46.32 Percutaneous (endoscopic) jejunostomy [PEJ] ®
Endoscopic conversion of gastrostomy to jejunostomy
Percutaneous (endoscopic) feeding enterostomy

Excludes: percutaneous [endoscopic] gastrojejunostomy (bypass) (44.32)
46.39 Other
Duodenostomy
Feeding enterostomy

46.4 Revision of intestinal stoma
46.40 Revision of intestinal stoma, not otherwise specified
Plastic enlargement of intestinal stoma
Reconstruction of stoma of intestine
Release of scar tissue of intestinal stoma
Excludes: excision of redundant mucosa (45.41)
46.41 Revision of stoma of small intestine
Excludes: excision of redundant mucosa (45.33)
46.42 Repair of pericolostomy hernia
46.43 Other revision of stoma of large intestine
Excludes: excision of redundant mucosa (45.41)

46.5 Closure of intestinal stoma
Code also any synchronous resection (45.34, 45.49, 45.61-45.8)
46.50 Closure of intestinal stoma, not otherwise specified
46.51 Closure of stoma of small intestine
46.52 Closure of stoma of large intestine
Closure or take-down of:
cecostomy
colostomy
sigmoidostomy

46.6 Fixation of intestine
46.60 Fixation of intestine, not otherwise specified
Fixation of intestine to abdominal wall
46.61 Fixation of small intestine to abdominal wall
Ileopexy
46.62 Other fixation of small intestine
Noble plication of small intestine
Plication of jejunum
46.63 Fixation of large intestine to abdominal wall
Cecocoloplicopexy
Sigmoidopexy (Moschowitz)
46.64 Other fixation of large intestine
Cecofixation
Colofixation

46.7 Other repair of intestine
Excludes: closure of:
ulcer of duodenum (44.42)
vesicoenteric fistula (57.83)
46.71 Suture of laceration of duodenum
46.72 Closure of fistula of duodenum
46.73 Suture of laceration of small intestine, except duodenum
46.74 Closure of fistula of small intestine, except duodenum

Excludes: closure of:
- artificial stoma (46.51)
- vaginal fistula (70.74)
- repair of gastrojejunocolic fistula (44.63)

46.75 Suture of laceration of large intestine

46.76 Closure of fistula of large intestine

Excludes: closure of:
- gastrocolic fistula (44.63)
- rectal fistula (48.73)
- sigmoidovesical fistula (57.83)
- stoma (46.52)
- vaginal fistula (70.72-70.73)
- vesicocolic fistula (57.83)
- vesicosigmoidovaginal fistula (57.83)

46.79 Other repair of intestine

Duodenoplasty

46.8 Dilation and manipulation of intestine

46.80 Intra-abdominal manipulation of intestine, not otherwise specified

Correction of intestinal malrotation
Reduction of:
- intestinal torsion
- intestinal volvulus
- intussusception

Excludes: reduction of intussusception with:
- fluoroscopy (96.29)
- ionizing radiation enema (96.29)
- ultrasonography guidance (96.29)

46.81 Intra-abdominal manipulation of small intestine

46.82 Intra-abdominal manipulation of large intestine

46.85 Dilation of intestine

Dilation (balloon) of duodenum
Dilation (balloon) of jejunum
Endoscopic dilation (balloon) of large intestine
That through rectum or colostomy

Excludes: with insertion of colonic stent (46.86-46.87)

46.86 Endoscopic insertion of colonic stent(s)

Colonoscopy (flexible) (through stoma) with transendoscopic stent placement
Combined with fluoroscopic-guided insertion
Stent endoprosthesis of colon
Through the scope [TTS] technique

Excludes: other non-endoscopic insertion of colonic stent (46.87)
46.87 Other insertion of colonic stent(s)
Includes: that by:
  fluoroscopic guidance only
  rectal guiding tube
  Non- endoscopic insertion

Code also any synchronous diagnostic procedure(s)

Excludes: endoscopic insertion of colonic stent (46.86)

46.9 Other operations on intestines

46.91 Myotomy of sigmoid colon

46.92 Myotomy of other parts of colon

46.93 Revision of anastomosis of small intestine

46.94 Revision of anastomosis of large intestine

46.95 Local perfusion of small intestine
Code also substance perfused (99.21-99.29)

46.96 Local perfusion of large intestine
Code also substance perfused (99.21-99.29)

46.97 Transplant of intestine
Note: To report donor source --see codes 00.91-00.93

46.99 Other
Ileoentectomy

Excludes: diagnostic procedures on intestine (45.11-45.29)
dilation of enterostomy stoma (96.24)
intestinal intubation (96.08)
removal of:
  intraluminal foreign body from large intestine without incision
  (98.04)
  intraluminal foreign body from small intestine without
  incision (98.03)
tube from large intestine (97.53)
tube from small intestine (97.52)
replacement of:
  large intestine tube or enterostomy device (97.04)
  small intestine tube or enterostomy device (97.03)

47 Operations on appendix
Includes: appendiceal stump

Code also any application or administration of an adhesion barrier substance
(99.77)

47.0 Appendectomy

Excludes: incidental appendectomy, so described
  laparoscopic (47.11)
  other (47.19)

47.01 Laparoscopic appendectomy

47.09 Other appendectomy
ICD-9-CM TABULAR LIST OF PROCEDURES (FY10)

47.1 Incidental appendectomy
   47.11 Laparoscopic incidental appendectomy
   47.19 Other incidental appendectomy

47.2 Drainage of appendiceal abscess
   Excludes: that with appendectomy (47.0)

47.9 Other operations on appendix
   47.91 Appendicostomy
   47.92 Closure of appendiceal fistula
   47.99 Other
      Anastomosis of appendix
      Excludes: diagnostic procedures on appendix (45.21-45.29)

48 Operations on rectum, rectosigmoid and perirectal tissue
   Code also any application or administration of an adhesion barrier substance (99.77)

48.0 Proctotomy
   Decompression of imperforate anus
   Panas' operation [linear proctotomy]
   Excludes: incision of perirectal tissue (48.81)

48.1 Proctostomy

48.2 Diagnostic procedures on rectum, rectosigmoid and perirectal tissue
   48.21 Transabdominal proctosigmoidoscopy
      Intraoperative proctosigmoidoscopy
      Excludes: that with biopsy (48.24)
   48.22 Proctosigmoidoscopy through artificial stoma
      Excludes: that with biopsy (48.24)
   48.23 Rigid proctosigmoidoscopy
      Excludes: flexible sigmoidoscopy (45.24)
   48.24 Closed [endoscopic] biopsy of rectum
      Brushing or washing for specimen collection
      Proctosigmoidoscopy with biopsy
   48.25 Open biopsy of rectum
   48.26 Biopsy of perirectal tissue
   48.29 Other diagnostic procedures on rectum, rectosigmoid and perirectal tissue
      Excludes: digital examination of rectum (89.34)
      lower GI series (87.64)
      microscopic examination of specimen from rectum (90.91-90.99)
48.3 Local excision or destruction of lesion or tissue of rectum

48.31 Radical electrocoagulation of rectal lesion or tissue
48.32 Other electrocoagulation of rectal lesion or tissue
48.33 Destruction of rectal lesion or tissue by laser
48.34 Destruction of rectal lesion or tissue by cryosurgery

48.35 Local excision of rectal lesion or tissue

*Excludes:* biopsy of rectum (48.24-48.25)
excision of perirectal tissue (48.82)
hemorrhoidectomy (49.46)
[endoscopic] polypectomy of rectum (48.36)
rectal fistulectomy (48.73)

48.36 [Endoscopic] polypectomy of rectum

48.4 Pull-through resection of rectum

Code also any synchronous anastomosis other than end-to-end (45.90, 45.92-45.95)

48.40 Pull-through resection of rectum, not otherwise specified
Pull-through resection NOS

*Excludes:* abdominoperineal pull-through NOS (48.50)

48.41 Soave submucosal resection of rectum
Endorectal pull-through operation

48.42 Laparoscopic pull-through resection of rectum

48.43 Open pull-through resection of rectum

48.49 Other pull-through resection of rectum
Abdominoperineal pull-through
Altemeier operation
Swenson proctectomy

*Excludes:* Duhamel abdominoperineal pull through (48.65)
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)

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)

48.50 Abdominoperineal resection of the rectum, not otherwise specified

48.51 Laparoscopic abdominoperineal resection of the rectum

48.52 Open abdominoperineal resection of the rectum
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)

Other resection of rectum

Code also any synchronous anastomosis other than end-to-end (45.90, 45.92-45.95)

Transsacral rectosigmoidectomy

Anterior resection of rectum with synchronous colostomy

Other anterior resection of rectum

Excludes: that with synchronous colostomy (48.62)

Posterior resection of rectum

Duhamel resection of rectum

Duhamel abdominoperineal pull-through

Other

Partial proctectomy
Rectal resection NOS

Repair of rectum

Excludes: repair of:
current obstetric laceration (75.62)
vaginal rectocele (70.50, 70.52, 70.53, 70.55)

Suture of laceration of rectum

Closure of proctostomy

Closure of other rectal fistula

Excludes: fistulectomy:
perirectal (48.93)
rectourethral (58.43)
rectovaginal (70.73)
rectovesical (57.83)
rectovesicovaginal (57.83)

Rectorectostomy

Rectal anastomosis NOS
Stapled transanal rectal resection (STARR)

Abdominal proctopexy

Frickman procedure
Ripstein repair of rectal prolapse

Other proctopexy

Delorme repair of prolapsed rectum
Proctosigmoidopexy
Puborectalis sling operation

Excludes: manual reduction of rectal prolapse (96.26)
48.79 Other repair of rectum
Repair of old obstetric laceration of rectum

Excludes: anastomosis to:
- large intestine (45.94)
- small intestine (45.92-45.93)

repair of:
- current obstetric laceration (75.62)
- vaginal rectocele (70.50, 70.52)

48.8 Incision or excision of perirectal tissue or lesion
Includes: pelvirectal tissue
- rectovaginal septum

48.81 Incision of perirectal tissue
Incision of rectovaginal septum

48.82 Excision of perirectal tissue

Excludes: perirectal biopsy (48.26)
- perirectofistulectomy (48.93)
- rectal fistula (48.73)

48.9 Other operations on rectum and perirectal tissue

48.91 Incision of rectal stricture

48.92 Anorectal myectomy

48.93 Repair of perirectal fistula

Excludes: that opening into rectum (48.73)

48.99 Other

Excludes: digital examination of rectum (89.34)
- dilation of rectum (96.22)
- insertion of rectal tube (96.09)
- irrigation of rectum (96.38-96.39)
- manual reduction of rectal prolapse (96.26)
- proctoclysis (96.37)
- rectal massage (99.93)
- rectal packing (96.19)
- removal of:
  - impacted feces (96.38)
  - intraluminal foreign body from rectum without incision (98.05)
  - anal packing (97.59)
  - transanal enema (96.39)

49 Operations on anus
Code also any application or administration of an adhesion barrier substance (99.77)

49.0 Incision or excision of perianal tissue

49.01 Incision of perianal abscess

49.02 Other incision of perianal tissue
Undercutting of perianal tissue

Excludes: anal fistulotomy (49.11)
49.03 Excision of perianal skin tags
49.04 Other excision of perianal tissue
   Excludes: anal fistulectomy (49.12)
   biopsy of perianal tissue (49.22)

49.1 Incision or excision of anal fistula
   Excludes: closure of anal fistula (49.73)
49.11 Anal fistulotomy
49.12 Anal fistulectomy

49.2 Diagnostic procedures on anus and perianal tissue
49.21 Anoscopy
49.22 Biopsy of perianal tissue
49.23 Biopsy of anus
49.29 Other diagnostic procedures on anus and perianal tissue
   Excludes: microscopic examination of specimen from anus (90.91-90.99)

49.3 Local excision or destruction of other lesion or tissue of anus
   Anal cryptotomy
   Cauterization of lesion of anus
   Excludes: biopsy of anus (49.23)
   control of (postoperative) hemorrhage of anus (49.95)
   hemorrhoidectomy (49.46)
49.31 Endoscopic excision or destruction of lesion or tissue of anus
49.39 Other local excision or destruction of lesion or tissue of anus
   Excludes: that by endoscopic approach (49.31)

49.4 Procedures on hemorrhoids
49.41 Reduction of hemorrhoids
49.42 Injection of hemorrhoids
49.43 Cauterization of hemorrhoids
   Clamp and cautery of hemorrhoids
49.44 Destruction of hemorrhoids by cryotherapy
49.45 Ligation of hemorrhoids
49.46 Excision of hemorrhoids
   Hemorrhoidectomy NOS
49.47 Evacuation of thrombosed hemorrhoids
49.49 Other procedures on hemorrhoids
   Lord procedure

49.5 Division of anal sphincter
49.51 Left lateral anal sphincterotomy
49.52 Posterior anal sphincterotomy
49.59 Other anal sphincterotomy
   Division of sphincter NOS
49.6 Excision of anus

49.7 Repair of anus

Excludes: repair of current obstetric laceration (75.62)

49.71 Suture of laceration of anus

49.72 Anal cerclage

49.73 Closure of anal fistula

Excludes: excision of anal fistula (49.12)

49.74 Gracilis muscle transplant for anal incontinence

49.75 Implantation or revision of artificial anal sphincter

Removal with subsequent replacement

Replacement during same or subsequent operative episode

49.76 Removal of artificial anal sphincter

Explantation or removal without replacement

Excludes: revision with implantation during same operative episode

(49.75)

49.79 Other repair of anal sphincter

Repair of old obstetric laceration of anus

Excludes: anoplasty with synchronous hemorrhoidectomy (49.46)

repair of current obstetric laceration (75.62)

49.9 Other operations on anus

Excludes: dilation of anus (sphincter) (96.23)

49.91 Incision of anal septum

49.92 Insertion of subcutaneous electrical anal stimulator

49.93 Other incision of anus

Removal of:

foreign body from anus with incision

seton from anus

Excludes: anal fistulotomy (49.11)

removal of intraluminal foreign body without incision (98.05)

49.94 Reduction of anal prolapse

Excludes: manual reduction of rectal prolapse (96.26)

49.95 Control of (postoperative) hemorrhage of anus

49.99 Other
50 Operations on liver
Code also any application or administration of an adhesion barrier substance (99.77)

50.0 Hepatotomy
Incision of abscess of liver
Removal of gallstones from liver
Stromeyer-Little operation

50.1 Diagnostic procedures on liver

50.11 Closed (percutaneous) [needle] biopsy of liver
Diagnostic aspiration of liver

50.12 Open biopsy of liver
Wedge biopsy

50.13 Transjugular liver biopsy
Transvenous liver biopsy

Excludes: closed (percutaneous) [needle] biopsy of liver (50.11)
laparoscopic liver biopsy (50.14)

50.14 Laparoscopic liver biopsy

Excludes: closed (percutaneous) [needle] biopsy of liver (50.11)
open biopsy of liver (50.12)
transjugular liver biopsy (50.13)

50.19 Other diagnostic procedures on liver

Excludes: liver scan and radioisotope function study (92.02)
microscopic examination of specimen from liver (91.01-91.09)
laparoscopic liver biopsy (50.14)
transjugular liver biopsy (50.13)

50.2 Local excision or destruction of liver tissue or lesion

50.21 Marsupialization of lesion of liver

50.22 Partial hepatectomy
Wedge resection of liver

Excludes: biopsy of liver (50.11-50.12)
hepatic lobectomy (50.3)

50.23 Open ablation of liver lesion or tissue

50.24 Percutaneous ablation of liver lesion or tissue

50.25 Laparoscopic ablation of liver lesion or tissue

50.26 Other and unspecified ablation of liver lesion or tissue

50.29 Other destruction of lesion of liver
Cauterization of hepatic lesion
Enucleation of hepatic lesion
Evacuation of hepatic lesion

Excludes: ablation of liver lesion or tissue
laparoscopic (50.25)
open (50.23)
other (50.26)
percutaneous (50.24)
percutaneous aspiration of lesion (50.91)
laser interstitial thermal therapy [LITT] of lesion or tissue of
liver under guidance (17.63)

50.3 Lobectomy of liver
Total hepatic lobectomy with partial excision of other lobe

50.4 Total hepatectomy

50.5 Liver transplant
Note: To report donor source --see codes 00.91-00.93
50.51 Auxiliary liver transplant
Auxiliary hepatic transplantation leaving patient's own liver in situ
50.59 Other transplant of liver

50.6 Repair of liver
50.61 Closure of laceration of liver
50.69 Other repair of liver
Hepatopexy

50.9 Other operations on liver
Excludes: lysis of adhesions (54.5)
50.91 Percutaneous aspiration of liver
Excludes: percutaneous biopsy (50.11)
50.92 Extracorporeal hepatic assistance
Liver dialysis
50.93 Localized perfusion of liver
50.94 Other injection of therapeutic substance into liver
50.99 Other

51 Operations on gallbladder and biliary tract
Includes: operations on:
ampulla of Vater
common bile duct
cystic duct
hepatic duct
intrahepatic bile duct
sphincter of Oddi

Code also any application or administration of an adhesion barrier substance (99.77)

51.0 Cholecystotomy and cholecystostomy
51.01 Percutaneous aspiration of gallbladder
Percutaneous cholecystotomy for drainage
That by: needle or catheter
Excludes: needle biopsy (51.12)
51.02 Trocar cholecystostomy
51.03 Other cholecystostomy
ICD-9-CM TABULAR LIST OF PROCEDURES (FY10)

51.04 Other cholecystotomy
Cholelithotomy NOS

51.1 Diagnostic procedures on biliary tract
Excludes: that for endoscopic procedures classifiable to 51.64, 51.84-51.88, 52.14, 52.21, 52.93-52.94, 52.97-52.98

51.10 Endoscopic retrograde cholangiopancreatography [ERCP]
Excludes: endoscopic retrograde:
cholangiography [ERC] (51.11)
pancreatography [ERP] (52.13)

51.11 Endoscopic retrograde cholangiography [ERC]
Laparoscopic exploration of common bile duct
Excludes: endoscopic retrograde:
cholangiopancreatography [ERCP] (51.10)
pancreatography [ERP] (52.13)

51.12 Percutaneous biopsy of gallbladder or bile ducts
Needle biopsy of gallbladder

51.13 Open biopsy of gallbladder or bile ducts

51.14 Other closed [endoscopic] biopsy of biliary duct or sphincter of Oddi
Brushing or washing for specimen collection
Closed biopsy of biliary duct or sphincter of Oddi by procedures classifiable to 51.10-51.11, 52.13

51.15 Pressure measurement of sphincter of Oddi
Pressure measurement of sphincter by procedures classifiable to 51.10-51.11, 52.13

51.19 Other diagnostic procedures on biliary tract
Excludes: biliary tract x-ray (87.51-87.59)
microscopic examination of specimen from biliary tract (91.01-91.09)

51.2 Cholecystectomy

51.21 Other partial cholecystectomy
Revision of prior cholecystectomy
Excludes: that by laparoscope (51.24)

51.22 Cholecystectomy
Excludes: laparoscopic cholecystectomy (51.23)

51.23 Laparoscopic cholecystectomy
That by laser

51.24 Laparoscopic partial cholecystectomy

51.3 Anastomosis of gallbladder or bile duct
Excludes: resection with end-to-end anastomosis (51.61-51.69)

51.31 Anastomosis of gallbladder to hepatic ducts
51.32 Anastomosis of gallbladder to intestine
51.33 Anastomosis of gallbladder to pancreas
51.34 Anastomosis of gallbladder to stomach
51.35 Other gallbladder anastomosis
   Gallbladder anastomosis NOS

51.36 Choledochoenterostomy

51.37 Anastomosis of hepatic duct to gastrointestinal tract
   Kasai portoenterostomy

51.39 Other bile duct anastomosis
   Anastomosis of bile duct NOS
   Anastomosis of unspecified bile duct to:
     intestine
     liver
     pancreas
     stomach

51.4 Incision of bile duct for relief of obstruction

51.41 Common duct exploration for removal of calculus
   *Excludes: percutaneous extraction (51.96)*

51.42 Common duct exploration for relief of other obstruction

51.43 Insertion of choledochohepatic tube for decompression
   Hepatocholedochostomy

51.49 Incision of other bile ducts for relief of obstruction

51.5 Other incision of bile duct
   *Excludes: that for relief of obstruction (51.41-51.49)*

51.51 Exploration of common duct
   Incision of common bile duct

51.59 Incision of other bile duct

51.6 Local excision or destruction of lesion or tissue of biliary ducts
   and sphincter of Oddi
   Code also anastomosis other than end- to- end (51.31,51.36-51.39)
   *Excludes: biopsy of bile duct (51.12-51.13)*

51.61 Excision of cystic duct remnant

51.62 Excision of ampulla of Vater (with reimplantation of common duct)

51.63 Other excision of common duct
   Choledochectomy
   *Excludes: fistulectomy (51.72)*

51.64 Endoscopic excision or destruction of lesion of biliary ducts or
   sphincter of Oddi
   Excision or destruction of lesion of biliary duct by procedures
   classifiable to 51.10- 51.11, 52.13

51.69 Excision of other bile duct
   Excision of lesion of bile duct NOS
   *Excludes: fistulectomy (51.79)*

51.7 Repair of bile ducts

51.71 Simple suture of common bile duct
51.72 Choledochoplasty
Repair of fistula of common bile duct

51.79 Repair of other bile ducts
Closure of artificial opening of bile duct NOS
Suture of bile duct NOS

Excludes: operative removal of prosthetic device (51.95)

51.8 Other operations on biliary ducts and sphincter of Oddi

51.81 Dilation of sphincter of Oddi
Dilation of ampulla of Vater

Excludes: that by endoscopic approach (51.84)

51.82 Pancreatic sphincterotomy
Incision of pancreatic sphincter
Transduodenal ampullary sphincterotomy

Excludes: that by endoscopic approach (51.85)

51.83 Pancreatic sphincteroplasty

51.84 Endoscopic dilation of ampulla and biliary duct
Dilation of ampulla and biliary duct by procedures classifiable to
51.10-51.11, 52.13

51.85 Endoscopic sphincterotomy and papillotomy
Sphincterotomy and papillotomy by procedures classifiable to
51.10-51.11, 52.13

51.86 Endoscopic insertion of nasobiliary drainage tube
Insertion of nasobiliary tube by procedures classifiable to
51.10-51.11, 52.13

51.87 Endoscopic insertion of stent (tube) into bile duct
Endoprosthesis of bile duct
Insertion of stent into bile duct by procedures classifiable to
51.10-51.11, 52.13

Excludes: nasobiliary drainage tube (51.86)
replacement of stent (tube) (97.05)

51.88 Endoscopic removal of stone(s) from biliary tract
Laparoscopic removal of stone(s) from biliary tract
Removal of biliary tract stone(s) by procedures classifiable to
51.10-51.11, 52.13

Excludes: percutaneous extraction of common duct stones (51.96)

51.89 Other operations on sphincter of Oddi

51.9 Other operations on biliary tract

51.91 Repair of laceration of gallbladder

51.92 Closure of cholecystostomy

51.93 Closure of other biliary fistula
Cholecystogastroenteric fistulectomy

51.94 Revision of anastomosis of biliary tract

51.95 Removal of prosthetic device from bile duct
Excludes: nonoperative removal (97.55)
51.96 Percutaneous extraction of common duct stones

51.98 Other percutaneous procedures on biliary tract
Percutaneous biliary endoscopy via existing T-tube or other tract for:
dilation of biliary duct stricture
removal of stone(s) except common duct stone
exploration (postoperative)
Percutaneous transhepatic biliary drainage

Excludes: percutaneous aspiration of gallbladder (51.01)
percutaneous biopsy and/or collection of specimen by
brushing or washing (51.12)
percutaneous removal of common duct stone(s) (51.96)

51.99 Other
Insertion or replacement of biliary tract prosthesis

Excludes: biopsy of gallbladder (51.12-51.13)
irrigation of cholecystostomy and other biliary tube (96.41)
lysis of peritoneal adhesions (54.5)
onoperative removal of:
cholecystostomy tube (97.54)
tube from biliary tract or liver (97.55)

52 Operations on pancreas
Includes: operations on pancreatic duct
Code also any application or administration of an adhesion barrier substance (99.77)

52.0 Pancreatotomy
52.01 Drainage of pancreatic cyst by catheter
52.09 Other pancreatotomy
Pancreatolithotomy

Excludes: drainage by anastomosis (52.4, 52.96)
incision of pancreatic sphincter (51.82)
marsupialization of cyst (52.3)

52.1 Diagnostic procedures on pancreas
52.11 Closed [aspiration] [needle] [percutaneous] biopsy of pancreas
52.12 Open biopsy of pancreas
52.13 Endoscopic retrograde pancreatography [ERP]

Excludes: endoscopic retrograde:
cholangiography [ERC] (51.11)
cholangiopancreatography [ERCP] (51.10)
that for procedures classifiable to 51.14-51.15, 51.64,
51.84-51.88, 52.14, 52.21, 52.92-52.94, 52.97-52.98

52.14 Closed [endoscopic] biopsy of pancreatic duct
Closed biopsy of pancreatic duct by procedures classifiable to
51.10-51.11, 52.13
### 52.19 Other diagnostic procedures on pancreas

*Excludes:* contrast pancreatogram (87.66) endoscopic retrograde pancreatography [ERP] (52.13) microscopic examination of specimen from pancreas (91.01-91.09)

### 52.2 Local excision or destruction of pancreas and pancreatic duct

*Excludes:* biopsy of pancreas (52.11-52.12, 52.14) pancreatic fistulectomy (52.95)

#### 52.21 Endoscopic excision or destruction of lesion or tissue of pancreatic duct

Excision or destruction of lesion or tissue of pancreatic duct by procedures classifiable to 51.10-51.11, 52.13

#### 52.22 Other excision or destruction of lesion or tissue of pancreas or pancreatic duct

### 52.3 Marsupialization of pancreatic cyst

*Excludes:* drainage of cyst by catheter (52.01)

### 52.4 Internal drainage of pancreatic cyst

- Pancreaticcystoduodenostomy
- Pancreaticcystogastrostomy
- Pancreaticcystojejunostomy

### 52.5 Partial pancreatectomy

*Excludes:* pancreatic fistulectomy (52.95)

#### 52.51 Proximal pancreatectomy

- Excision of head of pancreas (with part of body)
- Proximal pancreatectomy with synchronous duodenectomy

#### 52.52 Distal pancreatectomy

- Excision of tail of pancreas (with part of body)

#### 52.53 Radical subtotal pancreatectomy

#### 52.59 Other partial pancreatectomy

### 52.6 Total pancreatectomy

Pancreatectomy with synchronous duodenectomy

### 52.7 Radical pancreaticoduodenectomy

- One-stage pancreaticoduodenal resection with choledochojejunal anastomosis, pancreaticojejunal anastomosis, and gastrojejunostomy
- Two-stage pancreaticoduodenal resection (first stage) (second stage)
- Radical resection of the pancreas
- Whipple procedure

*Excludes:* radical subtotal pancreatectomy (52.53)

### 52.8 Transplant of pancreas

Note: To report donor source --see codes 00.91-00.93

#### 52.80 Pancreatic transplant, not otherwise specified

#### 52.81 Reimplantation of pancreatic tissue

#### 52.82 Homotransplant of pancreas
52.83 Heterotransplant of pancreas

52.84 Autotransplantation of cells of Islets of Langerhans
Homotransplantation of islet cells of pancreas

52.85 Allotransplantation of cells of Islets of Langerhans
Heterotransplantation of islet cells of pancreas

52.86 Transplantation of cells of Islets of Langerhans, not otherwise specified

52.9 Other operations on pancreas

52.92 Cannulation of pancreatic duct

Excludes: that by endoscopic approach (52.93)

52.93 Endoscopic insertion of stent (tube) into pancreatic duct
Insertion of cannula or stent into pancreatic duct by procedures classifiable to 51.10-51.11, 52.13

Excludes: endoscopic insertion of nasopancreatic drainage tube (52.97) replacement of stent (tube) (97.05)

52.94 Endoscopic removal of stone(s) from pancreatic duct
Removal of stone(s) from pancreatic duct by procedures classifiable to 51.10-51.11, 52.13

52.95 Other repair of pancreas
Fistulectomy of pancreas
Simple suture of pancreas

52.96 Anastomosis of pancreas
Anastomosis of pancreas (duct) to:
- intestine
- jejunum
- stomach

Excludes: anastomosis to:
- bile duct (51.39)
- gallbladder (51.33)

52.97 Endoscopic insertion of nasopancreatic drainage tube
Insertion of nasopancreatic drainage tube by procedures classifiable to 51.10-51.11, 52.13

Excludes: drainage of pancreatic cyst by catheter (52.01) replacement of stent (tube) (97.05)

52.98 Endoscopic dilation of pancreatic duct
Dilation of Wirsung's duct by procedures classifiable to 51.10-51.11, 52.13

52.99 Other
Dilation of pancreatic [Wirsung's] duct by open approach
Repair of pancreatic [Wirsung's] duct by open approach

Excludes: irrigation of pancreatic tube (96.42) removal of pancreatic tub (97.56)
53 Repair of hernia
Includes: hernioplasty
herniorrhaphy
Code also any application or administration of an adhesion barrier substance (99.77)
Excludes: manual reduction of hernia (96.27)

53.0 Other unilateral repair of inguinal hernia

53.00 Unilateral repair of inguinal hernia, not otherwise specified
Inguinal herniorrhaphy NOS

53.01 Other and open repair of direct inguinal hernia
Direct and indirect inguinal hernia

53.02 Other and open repair of indirect inguinal hernia

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

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

53.05 Repair of inguinal hernia with graft or prosthesis, not otherwise specified

53.1 Other bilateral repair of inguinal hernia

53.10 Bilateral repair of inguinal hernia, not otherwise specified

53.11 Other and open bilateral repair of direct inguinal hernia

53.12 Other and open bilateral repair of indirect inguinal hernia

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

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

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

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

53.17 Bilateral inguinal hernia repair with graft or prosthesis, not otherwise specified

53.2 Unilateral repair of femoral hernia

53.21 Unilateral repair of femoral hernia with graft or prosthesis

53.29 Other unilateral femoral herniorrhaphy

53.3 Bilateral repair of femoral hernia

53.31 Bilateral repair of femoral hernia with graft or prosthesis

53.39 Other bilateral femoral herniorrhaphy
53.4 Repair of umbilical hernia

*Excludes: repair of gastroschisis (54.71)*

- 53.41 Other and open repair of umbilical hernia with graft or prosthesis
- 53.42 Laparoscopic repair of umbilical hernia with graft or prosthesis
- 53.43 Other laparoscopic umbilical herniorrhaphy
- 53.49 Other open umbilical herniorrhaphy

*Excludes: other laparoscopic umbilical herniorrhaphy (53.43) repair of umbilical hernia with graft or prosthesis (53.41, 53.42)*

53.5 Repair of other hernia of anterior abdominal wall (without graft or prosthesis)

- 53.51 Incisional hernia repair
- 53.59 Repair of other hernia of anterior abdominal wall
  - Repair of hernia:
    - epigastric
    - hypogastric
    - spigelian
    - ventral

53.6 Repair of other hernia of anterior abdominal wall with graft or prosthesis

- 53.61 Other open incisional hernia repair with graft or prosthesis
- 53.62 Laparoscopic incisional hernia repair with graft or prosthesis
- 53.63 Other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis
- 53.69 Other and open repair of other hernia of anterior abdominal wall with graft or prosthesis

*Excludes: other laparoscopic repair of other hernia of anterior abdominal wall with graft or prosthesis (53.63)*

53.7 Repair of diaphragmatic hernia, abdominal approach

- 53.71 Laparoscopic repair of diaphragmatic hernia, abdominal approach
- 53.72 Other and open repair of diaphragmatic hernia, abdominal approach
- 53.75 Repair of diaphragmatic hernia, abdominal approach, not otherwise specified

*Excludes: laparoscopic repair of diaphragmatic hernia (53.71) other and open repair of diaphragmatic hernia (53.72)*

53.8 Repair of diaphragmatic hernia, thoracic approach

- 53.80 Repair of diaphragmatic hernia with thoracic approach, not otherwise specified
  - Thoracoabdominal repair of diaphragmatic hernia

- 53.81 Plication of the diaphragm
53.82 Repair of parasternal hernia

53.83 Laparoscopic repair of diaphragmatic hernia, with thoracic approach

53.84 Other and open repair of diaphragmatic hernia, with thoracic approach

  Excludes: repair of diaphragmatic hernia with thoracic approach, NOS (53.80)

53.9 Other hernia repair

  Repair of hernia:
  ischiatic
  ischiorectal
  lumbar
  obturator
  omental
  retroperitoneal
  sciatic

  Excludes: relief of strangulated hernia with exteriorization of intestine (46.01, 46.03)
  repair of pericolostomy hernia (46.42)
  repair of vaginal enterocele (70.92)

54 Other operations on abdominal region

  Includes: operations on:
  epigastric region
  flank
  groin region
  hypochondrium
  inguinal region
  loin region
  pelvic cavity
  mesentery
  omentum
  peritoneum
  retroperitoneal tissue space

  Code also any application or administration of an adhesion barrier substance (99.77)

  Excludes: hernia repair (53.00-53.9)
  obliteration of cul-de-sac (70.92)
  retroperitoneal tissue dissection (59.00-59.09)
  skin and subcutaneous tissue of abdominalwall (86.01-86.99)

54.0 Incision of abdominal wall

  Drainage of:
  abdominal wall
  extraperitoneal abscess
  retroperitoneal abscess

  Excludes: incision of peritoneum (54.95)
  laparotomy (54.11-54.19)

54.1 Laparotomy
54.11 Exploratory laparotomy

*Excludes: exploration incidental to intra abdominal surgery --omit code*

54.12 Reopening of recent laparotomy site

Reopening of recent laparotomy site for:
- control of hemorrhage
- exploration
- incision of hematoma

54.19 Other laparotomy

Drainage of intraperitoneal abscess or hematoma

*Excludes: culdocentesis (70.0)
- drainage of appendiceal abscess (47.2)
- exploration incidental to intra abdominal surgery --omit code
- Ladd operation (54.95)
- percutaneous drainage of abdomen (54.91)
- removal of foreign body (54.92)*

54.2 Diagnostic procedures of abdominal region

54.21 Laparoscopy

Peritoneoscopy

*Excludes: laparoscopic cholecystectomy (51.23)
- that incidental to destruction of fallopian tubes (66.21-66.29)*

54.22 Biopsy of abdominal wall or umbilicus

54.23 Biopsy of peritoneum

Biopsy of:
- mesentery
- omentum
- peritoneal implant

*Excludes: closed biopsy of:
- omentum (54.24)
- peritoneum (54.24)*

54.24 Closed [percutaneous] [needle] biopsy of intra-abdominal mass

Closed biopsy of:
- omentum
- peritoneal implant
- peritoneum

*Excludes: that of:
- fallopian tube (66.11)
- ovary (65.11)
- uterine ligaments (68.15)
- uterus (68.16)*

54.25 Peritoneal lavage

Diagnostic peritoneal lavage

*Excludes: peritoneal dialysis (54.98)*
54.29 Other diagnostic procedures on abdominal region

Excludes: abdominal lymphangiogram (88.04)
abdominal x-ray NEC (88.19)
angiocardiology of venae cava (88.51)
C.A.T. scan of abdomen (88.01)
contrast x-ray of abdominal cavity (88.11-88.15)
intra-abdominal arteriography NEC (88.47)
microscopic examination of peritoneal and retroperitoneal specimen (91.11-91.19)
phlebography of:
  intra-abdominal vessels NEC (88.65)
  portal venous system (88.64)
sinogram of abdominal wall (88.03)
soft tissue x-ray of abdominal wall NEC (88.09)
tomography of abdomen NE (88.02)
ultrasonography of abdomen and retroperitoneum (88.76)

54.3 Excision or destruction of lesion or tissue of abdominal wall or umbilicus

Debridement of abdominal wall
Omphalectomy

Excludes: biopsy of abdominal wall or umbilicus (54.22)
size reduction operation (86.83)
that of skin of abdominal wall (86.22, 86.26, 86.3)

54.4 Excision or destruction of peritoneal tissue

Excision of:
  appendices epiploicae
  falciform ligament
  gastrocolic ligament
  lesion of:
    mesentery
    omentum
    peritoneum
presacral lesion NOS
retroperitoneal lesion NOS

Excludes: biopsy of peritoneum (54.23)
endometrectomy of cul-de-sac (70.32)

54.5 Lysis of peritoneal adhesions

Freeing of adhesions of:
biliary tract
intestines
liver
pelvic peritoneum
peritoneum
spleen
uterus
Excludes: lysis of adhesions of:
  bladder (59.11)
  fallopian tube and ovary
    laparoscopic (65.81)
    other (65.89)
  kidney (59.02)
  ureter (59.02)

54.51 Laparoscopic lysis of peritoneal adhesions
54.59 Other lysis of peritoneal adhesions

54.6 Suture of abdominal wall and peritoneum

54.61 Reclosure of postoperative disruption of abdominal wall
54.62 Delayed closure of granulating abdominal wound
  Tertiary subcutaneous wound closure
54.63 Other suture of abdominal wall
  Suture of laceration of abdominal wall
  Excludes: closure of operative wound --omit code

54.64 Suture of peritoneum
  Secondary suture of peritoneum
  Excludes: closure of operative wound --omit code

54.7 Other repair of abdominal wall and peritoneum

54.71 Repair of gastroschisis
54.72 Other repair of abdominal wall
54.73 Other repair of peritoneum
  Suture of gastrocolic ligament
54.74 Other repair of omentum
  Epiploorrhaphy
  Graft of omentum
  Omentopexy
  Reduction of torsion of omentum
  Excludes: cardio-omentopexy (36.39)
54.75 Other repair of mesentery
  Mesenteric plication
  Mesenteropexy

54.9 Other operations of abdominal region

Excludes: removal of ectopic pregnancy (74.3)

54.91 Percutaneous abdominal drainage
  Paracentesis
  Excludes: creation of cutaneoperitoneal fistula (54.93)
54.92 Removal of foreign body from peritoneal cavity
54.93 Creation of cutaneoperitoneal fistula
54.94 Creation of peritoneovenous shunt
  Peritoneovenous shunt
54.95 **Incision of peritoneum**
- Exploration of ventriculoperitoneal shunt at peritoneal site
- Ladd operation
- Revision of distal catheter of ventricular shunt
- Revision of ventriculoperitoneal shunt at peritoneal site

*Excludes: that incidental to laparotomy (54.11-54.19)*

54.96 **Injection of air into peritoneal cavity**
- Pneumoperitoneum

*Excludes: that for:
  - collapse of lung (33.33)
  - radiography (88.12-88.13, 88.15)*

54.97 **Injection of locally-acting therapeutic substance into peritoneal cavity**

*Excludes: peritoneal dialysis (54.98)*

54.98 **Peritoneal dialysis**

*Excludes: peritoneal lavage (diagnostic) (54.25)*

54.99 **Other**

*Excludes: removal of:
  - abdominal wall suture (97.83)
  - peritoneal drainage device (97.82)
  - retroperitoneal drainage device (97.81)*
10. OPERATIONS ON THE URINARY SYSTEM (55-59)

55 Operations on kidney

Includes: operations on renal pelvis

Code also any application or administration of an adhesion barrier substance (99.77)

Excludes: perirenal tissue (59.00-59.09, 59.21-59.29, 59.91-59.92)

55.0 Nephrology and nephrectomy

Excludes: drainage by:

- anastomosis (55.86)
- aspiration (55.92)
- incision of kidney pelvis (55.11-55.12)

55.01 Nephrotomy

Evacuation of renal cyst
Exploration of kidney
Nephrolithotomy

55.02 Nephrostomy

55.03 Percutaneous nephrostomy without fragmentation

Percutaneous removal of kidney stone(s) by:
- basket extraction
- forceps extraction (nephroscopic)
- Pyelolithotomy, percutaneous (nephroscopic)

With placement of catheter down ureter

Excludes: percutaneous removal by fragmentation (55.04)

repeat nephroscopic removal during current episode (55.92)

55.04 Percutaneous nephrostomy with fragmentation

Percutaneous nephrostomy with disruption of kidney stone by ultrasonic energy and extraction (suction) through endoscope

With placement of catheter down ureter

With fluoroscopic guidance

Excludes: repeat fragmentation during current episode (59.95)

55.1 Pyelotomy and pyelostomy

Excludes: drainage by anastomosis (55.86)

percutaneous pyelolithotomy (55.03)

removal of calculus without incision (56.0)

55.11 Pyelotomy

Exploration of renal pelvis
Pyelolithotomy

55.12 Pyelostomy

Insertion of drainage tube into renal pelvis

55.2 Diagnostic procedures on kidney

55.21 Nephroscopy

55.22 Pyeloscopy
55.23 Closed [percutaneous] [needle] biopsy of kidney
Endoscopic biopsy via existing nephrostomy, nephrotomy, pyelostomy, or pyelotomy

55.24 Open biopsy of kidney

55.29 Other diagnostic procedures on kidney
Excludes: microscopic examination of specimen from kidney (91.21-91.29)
pyelogram:
  intravenous (87.73)
  percutaneous (87.75)
  retrograde (87.74)
radioisotope scan (92.03)
renal arteriography (88.45)
tomography:
  C.A.T. scan (87.71)
  other (87.72)

55.3 Local excision or destruction of lesion or tissue of kidney

55.31 Marsupialization of kidney lesion

55.32 Open ablation of renal lesion or tissue

55.33 Percutaneous ablation of renal lesion or tissue

55.34 Laparoscopic ablation of renal lesion or tissue

55.35 Other and unspecified ablation of renal lesion or tissue

55.39 Other local destruction or excision of renal lesion or tissue
Obliteration of calyceal diverticulum
Excludes: ablation of renal lesion or tissue:
  laparoscopic (55.34)
  open (55.32)
  other (55.35)
  percutaneous (55.33)
biopsy of kidney (55.23-55.24)
partial nephrectomy (55.4)
percutaneous aspiration of kidney (55.92)
wedge resection of kidney (55.4)

55.4 Partial nephrectomy
  Calycetomy
  Wedge resection of kidney
Code also any synchronous resection of ureter (56.40-56.42)

55.5 Complete nephrectomy
Code also any synchronous excision of:
  adrenal gland (07.21-07.3)
  bladder segment (57.6)
  lymph nodes (40.3, 40.52-40.59)

55.51 Nephroureterectomy
Nephroureterectomy with bladder cuff
Total nephrectomy (unilateral)
Excludes: removal of transplanted kidney (55.53)
55.52 Nephrectomy of remaining kidney  
Removal of solitary kidney  
*Excludes: removal of transplanted kidney (55.53)*

55.53 Removal of transplanted or rejected kidney  
*Excludes: complete nephrectomy NOS (55.51)*

55.6 Transplant of kidney  
Note: To report donor source --see codes 00.91-00.93  
55.61 Renal autotransplantation  
55.69 Other kidney transplantation

55.7 Nephropexy  
Fixation or suspension of movable [floating] kidney

55.8 Other repair of kidney  
55.81 Suture of laceration of kidney  
55.82 Closure of nephrostomy and pyelostomy  
55.83 Closure of other fistula of kidney  
55.84 Reduction of torsion of renal pedicle  
55.85 Symphysiomy for horseshoe kidney  
55.86 Anastomosis of kidney  
Nephropyeloureterostomy  
Pyeloureterovesical anastomosis  
Ureterocalyceal anastomosis  
*Excludes: nephrocystanastomosis NOS (56.73)*

55.87 Correction of ureteropelvic junction  
55.89 Other

55.9 Other operations on kidney  
*Excludes: lysis of perirenal adhesions (59.02)*  
55.91 Decapsulation of kidney  
Capsulectomy of kidney  
Decortication of kidney  
55.92 Percutaneous aspiration of kidney (pelvis)  
Aspiration of renal cyst  
Renipuncture  
*Excludes: percutaneous biopsy of kidney (55.23)*

55.93 Replacement of nephrostomy tube  
55.94 Replacement of pyelostomy tube  
55.95 Local perfusion of kidney  
55.96 Other injection of therapeutic substance into kidney  
Injection into renal cyst  
55.97 Implantation or replacement of mechanical kidney  
55.98 Removal of mechanical kidney
55.99 Other
   Excludes: removal of pyelostomy or nephrostomy tube (97.61)

56 Operations on ureter
   Code also any application or administration of an adhesion barrier substance (99.77)

56.0 Transurethral removal of obstruction from ureter and renal pelvis
   Removal of:
   blood clot from ureter or renal pelvis without incision
   calculus from ureter or renal pelvis without incision
   foreign body from ureter or renal pelvis without incision
   Excludes: manipulation without removal of obstruction (59.8) that by incision (55.11, 56.2)
   transurethral insertion of ureteral stent for passage of calculus (59.8)

56.1 Ureteral meatotomy

56.2 Ureterotomy
   Incision of ureter for:
   drainage
   exploration
   removal of calculus
   Excludes: cutting of ureterovesical orifice (56.1)
   removal of calculus without incision (56.0)
   transurethral insertion of ureteral stent for passage of calculus (59.8)
   urinary diversion (56.51-56.79)

56.3 Diagnostic procedures on ureter

56.31 Ureteroscopy

56.32 Closed percutaneous biopsy of ureter
   Excludes: endoscopic biopsy of ureter (56.33)

56.33 Closed endoscopic biopsy of ureter
   Cystourethroscopy with ureteral biopsy
   Transurethral biopsy of ureter
   Ureteral endoscopy with biopsy through ureterotomy
   Ureteroscopy with biopsy
   Excludes: percutaneous biopsy of ureter (56.32)

56.34 Open biopsy of ureter

56.35 Endoscopy (cystoscopy) (looposcopy) of ileal conduit

56.39 Other diagnostic procedures on ureter
   Excludes: microscopic examination of specimen from ureter (91.21-91.29)
56.4 Ureterectomy

Code also anastomosis other than end-to-end (56.51-56.79)

**Excludes:** fistulectomy (56.84)
nephroureterectomy (55.51-55.54)

56.40 Ureterectomy, not otherwise specified

56.41 Partial ureterectomy
  Excision of lesion of ureter
  Shortening of ureter with reimplantation

**Excludes:** biopsy of ureter (56.32-56.34)

56.42 Total ureterectomy

56.5 Cutaneous uretero-ileostomy

56.51 Formation of cutaneous uretero-ileostomy
  Construction of ileal conduit
  External ureteral ileostomy
  Formation of open ileal bladder
  Ileal loop operation
  Ileoureterostomy (Bricker's) (ileal bladder)
  Transplantation of ureter into ileum with external diversion

**Excludes:** closed ileal bladder (57.87)
replacement of ureteral defect by ileal segment (56.89)

56.52 Revision of cutaneous uretero-ileostomy

56.6 Other external urinary diversion

56.61 Formation of other cutaneous ureterostomy
  Anastomosis of ureter to skin
  Ureterostomy NOS

56.62 Revision of other cutaneous ureterostomy
  Revision of ureterostomy stoma

**Excludes:** nonoperative removal of ureterostomy tube (97.62)

56.7 Other anastomosis or bypass of ureter

**Excludes:** ureteropyelostomy (55.86)

56.71 Urinary diversion to intestine
  Anastomosis of ureter to intestine
  Internal urinary diversion NOS

Code also any synchronous colostomy (46.10-46.13)

**Excludes:** external ureteral ileostomy (56.51)

56.72 Revision of ureterointestinal anastomosis

**Excludes:** revision of external ureteral ileostomy (56.52)

56.73 Nephrocystanastomosis, not otherwise specified

56.74 Ureteroneocystostomy
  Replacement of ureter with bladder flap
  Ureterovesical anastomosis

56.75 Transureteroureterostomy

**Excludes:** ureteroureterostomy associated with partial resection (56.41)

56.79 Other
56.8 Repair of ureter

56.81 Lysis of intraluminal adhesions of ureter

*Excludes:* lysis of periureteral adhesions (59.02-59.03)
ureterolysis (59.02-59.03)

56.82 Suture of laceration of ureter

56.83 Closure of ureterostomy

56.84 Closure of other fistula of ureter

56.85 Ureteropexy

56.86 Removal of ligature from ureter

56.89 Other repair of ureter

- Graft of ureter
- Replacement of ureter with ileal segment implanted into bladder
- Ureteroplication

56.9 Other operations on ureter

56.91 Dilation of ureteral meatus

56.92 Implantation of electronic ureteral stimulator

56.93 Replacement of electronic ureteral stimulator

56.94 Removal of electronic ureteral stimulator

*Excludes:* that with synchronous replacement (56.93)

56.95 Ligation of ureter

56.99 Other

*Excludes:* removal of ureterostomy tube and ureteral catheter (97.62)
ureteral catheterization (59.8)

57 Operations on urinary bladder

Code also any application or administration of an adhesion barrier substance (99.77)

*Excludes:* perivesical tissue (59.11-59.29, 59.91-59.92)
ureterovesical orifice (56.0-56.99)

57.0 Transurethral clearance of bladder

Drainage of bladder without incision
Removal of:
- blood clots from bladder without incision
- calculus from bladder without incision
- foreign body from bladder without incision

*Excludes:* that by incision (57.19)

57.1 Cystotomy and cystostomy

*Excludes:* cystotomy and cystostomy as operative approach -- omit code

57.11 Percutaneous aspiration of bladder

57.12 Lysis of intraluminal adhesions with incision into bladder

*Excludes:* transurethral lysis of intraluminal adhesions (57.11)
57.17 Percutaneous cystostomy
Closed cystostomy
Percutaneous suprapubic cystostomy

*Excludes: removal of cystostomy tube (97.63)
replacement of cystostomy tube (59.94)*

57.18 Other suprapubic cystostomy

*Excludes: percutaneous cystostomy (57.17)
removal of cystostomy tube (97.63)
replacement of cystostomy tube (59.94)*

57.19 Other cystotomy
Cystolithotomy

*Excludes: percutaneous cystostomy (57.17)
suprapubic cystostomy (57.18)*

57.2 Vesicostomy

*Excludes: percutaneous cystostomy (57.17)
suprapubic cystostomy (57.18)*

57.21 Vesicostomy
Creation of permanent opening from bladder to skin using a bladder flap

57.22 Revision or closure of vesicostomy

*Excludes: closure of cystostomy (57.82)*

57.3 Diagnostic procedures on bladder

57.31 Cystoscopy through artificial stoma

57.32 Other cystoscopy
Transurethral cystoscopy

*Excludes: cystourethroscopy with ureteral biopsy (56.33)
retrograde pyelogram (87.74)
that for control of hemorrhage (postoperative):
bladder (57.93)
prostate (60.94)*

57.33 Closed [transurethral] biopsy of bladder

57.34 Open biopsy of bladder

57.39 Other diagnostic procedures on bladder

*Excludes: cystogram NEC (87.77)
microscopic examination of specimen from bladder (91.31-91.39)
retrograde cystourethrogram (87.76)
therapeutic distention of bladder (96.25)*

57.4 Transurethral excision or destruction of bladder tissue

57.41 Transurethral lysis of intraluminal adhesions

57.49 Other transurethral excision or destruction of lesion or tissue of bladder
Endoscopic resection of bladder lesion

*Excludes: transurethral biopsy of bladder (57.33)
transurethral fistulectomy (57.83-57.84)*
57.5 Other excision or destruction of bladder tissue

*Excludes:* that with transurethral approach (57.41-57.49)

57.51 Excision of urachus
    Excision of urachal sinus of bladder
    *Excludes:* excision of urachal cyst of abdominal wall (54.3)

57.59 Open excision or destruction of other lesion or tissue of bladder
    Endometrectomy of bladder
    Suprapubic excision of bladder lesion
    *Excludes:* biopsy of bladder (57.33-57.34)
    fistulectomy of bladder (57.83-57.84)

57.6 Partial cystectomy
    Excision of bladder dome
    Trigonectomy
    Wedge resection of bladder

57.7 Total cystectomy
    Includes: total cystectomy with urethrectomy

57.71 Radical cystectomy
    Pelvic exenteration in male
    Removal of bladder, prostate, seminal vesicles, and fat
    Removal of bladder, urethra, and fat in a female
    Code also any:
    lymph node dissection (40.3, 40.5)
    urinary diversion (56.51-56.79)
    *Excludes:* that as part of pelvic exenteration in female (68.8)

57.79 Other total cystectomy

57.8 Other repair of urinary bladder

*Excludes:* repair of:
    current obstetric laceration (75.61)
    cystocele (70.50-70.51)
    that for stress incontinence (59.3-59.79)

57.81 Suture of laceration of bladder

57.82 Closure of cystostomy

57.83 Repair of fistula involving bladder and intestine
    Rectovesicovaginal fistulectomy
    Vesicosigmoidovaginal fistulectomy

57.84 Repair of other fistula of bladder
    Cervico vesical fistulectomy
    Urethroperineovesical fistulectomy
    Uterovesical fistulectomy
    Vaginovesical fistulectomy
    *Excludes:* vesicoureterovagina fistulectomy (56.84)

57.85 Cystourethroplasty and plastic repair of bladder neck
    Plication of sphincter of urinary bladder
    V-Y plasty of bladder neck

57.86 Repair of bladder extrophy
57.87 Reconstruction of urinary bladder
Anastomosis of bladder with isolated segment of ileum
Augmentation of bladder
Replacement of bladder with ileum or sigmoid [closed ileal bladder]
Code also resection of intestine (45.50-45.52)

57.88 Other anastomosis of bladder
Anastomosis of bladder to intestine NOS
Cystocolic anastomosis

Excludes: formation of closed ileal bladder (57.87)

57.89 Other repair of bladder
Bladder suspension, not elsewhere classified
Cystopexy NOS
Repair of old obstetric laceration of bladder

Excludes: repair of current obstetric laceration (75.61)

57.9 Other operations on bladder

57.91 Sphincterotomy of bladder
Division of bladder neck

57.92 Dilation of bladder neck

57.93 Control of (postoperative) hemorrhage of bladder

57.94 Insertion of indwelling urinary catheter

57.95 Replacement of indwelling urinary catheter

57.96 Implantation of electronic bladder stimulator

57.97 Replacement of electronic bladder stimulator

57.98 Removal of electronic bladder stimulator

Excludes: that with synchronous replacement (57.97)

57.99 Other

Excludes: irrigation of:
cystostomy (96.47)
other indwelling urinary catheter (96.48)
lysis of external adhesions (59.11)
removal of:
cystostomy tube (97.63)
other urinary drainage device (97.64)
therapeutic distention of bladder (96.25)

58 Operations on urethra
Includes: operations on:
bulbourethral gland [Cowper's gland]
periurethral tissue

Code also any application or administration of an adhesion barrier substance (99.77)
58.0 Urethrotomy
   Excision of urethral septum
   Formation of urethrovaginal fistula
   Perineal urethrostomy
   Removal of calculus from urethra by incision
   Excludes: drainage of bulbourethral gland or periurethral tissue (58.91)
   internal urethral meatotomy (58.5)
   removal of urethral calculus without incision (58.6)

58.1 Urethral meatotomy
   Excludes: internal urethral meatotomy (58.5)

58.2 Diagnostic procedures on urethra
   58.21 Perineal urethroscopy
   58.22 Other urethroscopy
   58.23 Biopsy of urethra
   58.24 Biopsy of periurethral tissue
   58.29 Other diagnostic procedures on urethra and periurethral tissue
      Excludes: microscopic examination of specimen from urethra
      (91.31-91.39)
      retrograde cystourethrogram (87.76)
      urethral pressure profil (89.25)
      urethral sphincter electromyogram (89.23)

58.3 Excision or destruction of lesion or tissue of urethra
   Excludes: biopsy of urethra (58.23)
   excision of bulbourethral gland (58.92)
   fistulotomy (58.43)
   urethrectomy as part of:
   complete cystectomy (57.79)
   pelvic evisceration (68.8)
   radical cystectomy (57.71)
   58.31 Endoscopic excision or destruction of lesion or tissue of urethra
      Fulguration of urethral lesion
   58.39 Other local excision or destruction of lesion or tissue of urethra
      Excision of:
      congenital valve of urethra
      lesion of urethra
      stricture of urethra
      Urethrectomy
      Excludes: that by endoscopic approach (58.31)

58.4 Repair of urethra
   Excludes: repair of current obstetric laceration (75.61)
   58.41 Suture of laceration of urethra
   58.42 Closure of urethrostomy
   58.43 Closure of other fistula of urethra
      Excludes: repair of urethroperineovesical fistula (57.84)
58.44 Reanastomosis of urethra
Anastomosis of urethra

58.45 Repair of hypospadias or epispadias

58.46 Other reconstruction of urethra
Urethral construction

58.47 Urethral meatoplasty

58.49 Other repair of urethra
Benenenti rotation of bulbous urethra
Repair of old obstetric laceration of urethra
Urethral plication

*Excludes: repair of:
  - current obstetric laceration (75.61)
  - urethrocele (70.50-70.51)*

58.5 Release of urethral stricture
Cutting of urethral sphincter
Internal urethral meatotomy
Urethrolysis

58.6 Dilation of urethra
Dilation of urethrovessical junction
Passage of sounds through urethra
Removal of calculus from urethra without incision

*Excludes: urethral calibration (89.29)*

58.9 Other operations on urethra and periurethral tissue

58.91 Incision of periurethral tissue
Drainage of bulbourethral gland

58.92 Excision of periurethral tissue

*Excludes: biopsy of periurethral tissue (58.24)
  lysis of periurethral adhesions
  laparoscopic (59.12)
  other (59.11)*

58.93 Implantation of artificial urinary sphincter [AUS]
Placement of inflatable:
  - bladder sphincter
  - urethral sphincter
Removal with replacement of sphincter device [AUS]
  With pump and/or reservoir

58.99 Other
Removal of inflatable urinary sphincter without replacement
Repair of inflatable sphincter pump and/or reservoir
Surgical correction of hydraulic pressure of inflatable sphincter device

*Excludes: removal of:
  intraluminal foreign body from urethra without incision (98.19)
  urethral stent (97.65)*
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<td>Retropubic exploration</td>
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<td>Other diagnostic procedures on perirenal tissue, perivesical tissue, and</td>
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<td>Oxford operation for urinary incontinence</td>
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<td>Urethrocystopexy by suprapubic suspension</td>
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59.7 Other repair of urinary stress incontinence

59.71 Levator muscle operation for urethrovesical suspension
- Cystourethropexy with levator muscle sling
- Gracilis muscle transplant for urethrovesical suspension
- Pubococcygeal sling

59.72 Injection of implant into urethra and/or bladder neck
- Collagen implant
- Endoscopic injection of implant
- Fat implant
- Polytef implant

59.79 Other
- Anterior urethropexy
- Repair of stress incontinence NOS
- Tudor "rabbit ear" urethropexy

59.8 Ureteral catheterization
- Drainage of kidney by catheter
- Insertion of ureteral stent
- Ureterovesical orifice dilation
- Code also any ureterotomy (56.2)

Excludes: that for:
- retrograde pyelogram (87.74)
- transurethral removal of calculus or clot from ureter and renal pelvis (56.0)

59.9 Other operations on urinary system

Excludes: nonoperative removal of therapeutic device (97.61-97.69)

59.91 Excision of perirenal or perivesical tissue

Excludes: biopsy of perirenal or perivesical tissue (59.21)

59.92 Other operations on perirenal or perivesical tissue

59.93 Replacement of ureterostomy tube
- Change of ureterostomy tube
- Reinsertion of ureterostomy tube

Excludes: nonoperative removal of ureterostomy tube (97.62)

59.94 Replacement of cystostomy tube

Excludes: nonoperative removal of cystostomy tube (97.63)

59.95 Ultrasonic fragmentation of urinary stones
- Shattered urinary stones

Excludes: percutaneous nephrostomy with fragmentation (55.04)
- shock-wave disintegration (98.51)

59.99 Other

Excludes: instillation of medication into urinary tract (96.49)
- irrigation of urinary tract (96.45-96.48)
11. OPERATIONS ON THE MALE GENITAL ORGANS (60-64)

60 Operations on prostate and seminal vesicles
Includes: operations on periprostatic tissue
Code also any application or administration of an adhesion barrier substance
(99.77)
Excludes: that associated with radical cystectomy (57.71)

60.0 Incision of prostate
Drainage of prostatic abscess
Prostatolithotomy
Excludes: drainage of periprostatic tissue only (60.81)

60.1 Diagnostic procedures on prostate and seminal vesicles

60.11 Closed [percutaneous] [needle] biopsy of prostate
Approach:
- transrectal
- transurethral
Punch biopsy

60.12 Open biopsy of prostate

60.13 Closed [percutaneous] biopsy of seminal vesicles
Needle biopsy of seminal vesicles

60.14 Open biopsy of seminal vesicles

60.15 Biopsy of periprostatic tissue

60.18 Other diagnostic procedures on prostate and periprostatic tissue
Excludes: microscopic examination of specimen from prostate (91.31-91.39)
x-ray of prostate (87.92)

60.19 Other diagnostic procedures on seminal vesicles
Excludes: microscopic examination of specimen from seminal vesicles (91.31-91.39)
x-ray:
- contrast seminal vesiculogra (87.91)
- other (87.92)

60.2 Transurethral prostatectomy
Excludes: local excision of lesion of prostate (60.61)

60.21 Transurethral (ultrasound) guided laser induced prostatectomy (TULIP)
Ablation (contact) (noncontact) by laser

60.29 Other transurethral prostatectomy
Excision of median bar by transurethral approach
Transurethral electrovaporization of prostate (TEVAP)
Transurethral enucleative procedure
Transurethral prostatectomy NOS
Transurethral resection of prostate (TURP)
60.3 Suprapubic prostatectomy
Transvesical prostatectomy
Excludes: local excision of lesion of prostate (60.61) radical prostatectomy (60.5)

60.4 Retropubic prostatectomy
Excludes: local excision of lesion of prostate (60.61) radical prostatectomy (60.5)

60.5 Radical prostatectomy
Prostatovesiculectomy
Radical prostatectomy by any approach
Excludes: cystoprostatectomy (57.71)

60.6 Other prostatectomy

60.61 Local excision of lesion of prostate
Excludes: biopsy of prostate (60.11-60.12) laser interstitial thermal therapy [LITT] of lesion or tissue of prostate under guidance (17.69)

60.62 Perineal prostatectomy
Cryoablation of prostate
Cryoprostatectomy
Cryosurgery of prostate
Radical cryosurgical ablation of prostate (RCSA)
Excludes: local excision of lesion of prostate (60.61)

60.69 Other

60.7 Operations on seminal vesicles

60.71 Percutaneous aspiration of seminal vesicle
Excludes: needle biopsy of seminal vesicle (60.13)

60.72 Incision of seminal vesicle

60.73 Excision of seminal vesicle
Excision of Müllerian duct cyst
Spermatocystectomy
Excludes: biopsy of seminal vesicle (60.13-60.14) prostatovesiculectomy (60.5)

60.79 Other operations on seminal vesicles

60.8 Incision or excision of periprostatic tissue

60.81 Incision of periprostatic tissue
Drainage of periprostatic abscess

60.82 Excision of periprostatic tissue
Excision of lesion of periprostatic tissue
Excludes: biopsy of periprostatic tissue (60.15)

60.9 Other operations on prostate

60.91 Percutaneous aspiration of prostate
Excludes: needle biopsy of prostate (60.11)
60.92 Injection into prostate  test link

60.93 Repair of prostate

60.94 Control of (postoperative) hemorrhage of prostate  
   Coagulation of prostatic bed  
   Cystoscopy for control of prostatic hemorrhage

60.95 Transurethral balloon dilation of the prostatic urethra

60.96 Transurethral destruction of prostate tissue by microwave thermotherapy  
   Transurethral microwave thermotherapy (TUMT) of prostate

   *Excludes: Prostatectomy:  
      other (60.61 - 60.69)  
      radical (60.5)  
      retropubic (60.4)  
      suprapubic (60.3)  
      transurethral (60.21 - 60.29)*

60.97 Other transurethral destruction of prostate tissue by other thermotherapy  
   Radiofrequency thermotherapy  
   Transurethral needle ablation (TUNA) of prostate

   *Excludes: Prostatectomy:  
      other (60.61 - 60.69)  
      radical (60.5)  
      retropubic (60.4)  
      suprapubic (60.3)  
      transurethral (60.21 - 60.29)*

60.99 Other

   *Excludes: prostatic massage (99.94)*

61 Operations on scrotum and tunica vaginalis

61.0 Incision and drainage of scrotum and tunica vaginalis

   *Excludes: percutaneous aspiration of hydrocele (61.91)*

61.1 Diagnostic procedures on scrotum and tunica vaginalis

61.11 Biopsy of scrotum or tunica vaginalis

61.19 Other diagnostic procedures on scrotum and tunica vaginalis

61.2 Excision of hydrocele (of tunica vaginalis)

   Bottle repair of hydrocele of tunica vaginalis

   *Excludes: percutaneous aspiration of hydrocele (61.91)*

61.3 Excision or destruction of lesion or tissue of scrotum

   Fulguration of lesion of scrotum  
   Reduction of elephantiasis of scrotum  
   Partial scrotectomy of scrotum

   *Excludes: biopsy of scrotum (61.11)  
      scrotal fistulectomy (61.42)*
### 61.4 Repair of scrotum and tunica vaginalis

- **61.41** Suture of laceration of scrotum and tunica vaginalis
- **61.42** Repair of scrotal fistula
- **61.49** Other repair of scrotum and tunica vaginalis  
  Reconstruction with rotational or pedicle flaps

### 61.9 Other operations on scrotum and tunica vaginalis

- **61.91** Percutaneous aspiration of tunica vaginalis  
  Aspiration of hydrocele of tunica vaginalis
- **61.92** Excision of lesion of tunica vaginalis other than hydrocele  
  Excision of hematocele of tunica vaginalis
- **61.99** Other  
  
  *Excludes: removal of foreign body from scrotum without incision*  
  (98.24)

### 62 Operations on testes

#### 62.0 Incision of testis

#### 62.1 Diagnostic procedures on testes

- **62.11** Closed [percutaneous] [needle] biopsy of testis
- **62.12** Open biopsy of testis
- **62.19** Other diagnostic procedures on testes

#### 62.2 Excision or destruction of testicular lesion

- Excision of appendix testis
- Excision of cyst of Morgagni in the male  
  
  *Excludes: biopsy of testis* (62.11-62.12)

#### 62.3 Unilateral orchiectomy

  Orchidectomy (with epididymectomy) NOS

#### 62.4 Bilateral orchiectomy

  Male castration  
  Radical bilateral orchiectomy (with epididymectomy)  
  Code also any synchronous lymph node dissection (40.3, 40.5)

- **62.41** Removal of both testes at same operative episode  
  Bilateral orchiectomy NOS
- **62.42** Removal of remaining testis  
  Removal of solitary testis

#### 62.5 Orchiopexy

  Mobilization and replacement of testis in scrotum  
  Orchiopexy with detorsion of testis  
  Torek (-Bevan) operation (orchiopexy) (first stage) (second stage)  
  Transplantation to and fixation of testis in scrotum
62.6 Repair of testes
   Excludes: reduction of torsion (63.52)
62.61 Suture of laceration of testis
62.69 Other repair of testis
   Testicular graft

62.7 Insertion of testicular prosthesis

62.9 Other operations on testes
62.91 Aspiration of testis
   Excludes: percutaneous biopsy of testis (62.11)
62.92 Injection of therapeutic substance into testis
62.99 Other

63 Operations on spermatic cord, epididymis, and vas deferens

63.0 Diagnostic procedures on spermatic cord, epididymis, and vas deferens
63.01 Biopsy of spermatic cord, epididymis, or vas deferens
63.09 Other diagnostic procedures on spermatic cord, epididymis, and vas deferens
   Excludes: contrast epididymogram (87.93)
   contrast vasogram (87.94)
   other x-ray of epididymis and vas deferens (87.95)

63.1 Excision of varicocele and hydrocele of spermatic cord
   High ligation of spermatic vein
   Hydrocelectomy of canal of Nuck

63.2 Excision of cyst of epididymis
   Spermatocelectomy

63.3 Excision of other lesion or tissue of spermatic cord and epididymis
   Excision of appendix epididymis
   Excludes: biopsy of spermatic cord or epididymis (63.01)

63.4 Epididymectomy
   Excludes: that synchronous with orchiectomy (62.3-62.42)

63.5 Repair of spermatic cord and epididymis
63.51 Suture of laceration of spermatic cord and epididymis
63.52 Reduction of torsion of testis or spermatic cord
   Excludes: that associated with orchiopexy (62.5)
63.53 Transplantation of spermatic cord
63.59 Other repair of spermatic cord and epididymis
63.6 Vasotomy
Vasostomy

63.7 Vasectomy and ligation of vas deferens
   63.70 Male sterilization procedure, not otherwise specified
   63.71 Ligation of vas deferens
      Crushing of vas deferens
      Division of vas deferens
   63.72 Ligation of spermatic cord
   63.73 Vasectomy

63.8 Repair of vas deferens and epididymis
   63.81 Suture of laceration of vas deferens and epididymis
   63.82 Reconstruction of surgically divided vas deferens
   63.83 Epididymovasostomy
   63.84 Removal of ligature from vas deferens
   63.85 Removal of valve from vas deferens
   63.89 Other repair of vas deferens and epididymis

63.9 Other operations on spermatic cord, epididymis, and vas deferens
   63.91 Aspiration of spermatocele
   63.92 Epididymotomy
   63.93 Incision of spermatic cord
   63.94 Lysis of adhesions of spermatic cord
   63.95 Insertion of valve in vas deferens
   63.99 Other

64 Operations on penis
   Includes: operations on:
      corpora cavernosa
      glans penis
      prepuce

64.0 Circumcision

64.1 Diagnostic procedures on the penis
   64.11 Biopsy of penis
   64.19 Other diagnostic procedures on penis

64.2 Local excision or destruction of lesion of penis
   Excludes: biopsy of penis (64.11)

64.3 Amputation of penis

64.4 Repair and plastic operation on penis
   64.41 Suture of laceration of penis
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<tr>
<td>64.42</td>
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<td>64.44</td>
<td>Reconstruction of penis</td>
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<td>Excludes: repair of epispadias and hypospadias (58.45)</td>
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<td>Other operations on male genital organs</td>
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<td>Dorsal or lateral slit of prepuce</td>
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<td>Fitting of external prosthesis of penis</td>
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<td>Insertion of semi-rigid rod prosthesis into shaft of penis</td>
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<td>Insertion of cylinders into shaft of penis and placement of pump and reservoir</td>
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<td>Excludes: collection of sperm fo artificial insemination (99.96)</td>
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12. OPERATIONS ON THE FEMALE GENITAL ORGANS (65-71)

65  Operations on ovary
   Code also any application or administration of an adhesion barrier substance
   (99.77)

65.0  Oophorotomy
       Salpingo- oophorotomy
   65.01  Laparoscopic oophorotomy
   65.09  Other oophorotomy

65.1  Diagnostic procedures on ovaries
   65.11  Aspiration biopsy of ovary
   65.12  Other biopsy of ovary
   65.13  Laparoscopic biopsy of ovary
   65.14  Other laparoscopic diagnostic procedures on ovaries
   65.19  Other diagnostic procedures on ovaries
      *Excludes: microscopic examination of specimen from ovary
      (91.41-91.49)*

65.2  Local excision or destruction of ovarian lesion or tissue
   65.21  Marsupialization of ovarian cyst
      *Excludes: that by laparoscope (65.23)*
   65.22  Wedge resection of ovary
      *Excludes: that by laparoscope (65.24)*
   65.23  Laparoscopic marsupialization of ovarian cyst
   65.24  Laparoscopic wedge resection of ovary
   65.25  Other laparoscopic local excision or destruction of ovary
   65.29  Other local excision or destruction of ovary
      Bisection of ovary
      Cauterization of ovary
      Partial excision of ovary
      *Excludes: biopsy of ovary (65.11-65.13) that by laparoscope (65.25)*

65.3  Unilateral oophorectomy
   65.31  Laparoscopic unilateral oophorectomy
   65.39  Other unilateral oophorectomy
      *Excludes: that by laparoscope (65.31)*

65.4  Unilateral salpingo- oophorectomy
   65.41  Laparoscopic unilateral salpingo- oophorectomy
   65.49  Other unilateral salpingo- oophorectomy
65.5 **Bilateral oophorectomy**

65.51 Other removal of both ovaries at same operative episode
Female castration

*Excludes: that by laparoscope (65.53)*

65.52 Other removal of remaining ovary
Removal of solitary ovary

*Excludes: that by laparoscope (65.54)*

65.53 Laparoscopic removal of both ovaries at same operative episode

65.54 Laparoscopic removal of remaining ovary

65.6 **Bilateral salpingo-oophorectomy**

65.61 Other removal of both ovaries and tubes at same operative episode

*Excludes: that by laparoscope (65.63)*

65.62 Other removal of remaining ovary and tube
Removal of solitary ovary and tube

*Excludes: that by laparoscope (65.64)*

65.63 Laparoscopic removal of both ovaries and tubes at same operative episode

65.64 Laparoscopic removal of remaining ovary and tube

65.7 **Repair of ovary**

*Excludes: salpingo-oophorostomy (66.72)*

65.71 Other simple suture of ovary

*Excludes: that by laparoscope (65.74)*

65.72 Other reimplantation of ovary

*Excludes: that by laparoscope (65.75)*

65.73 Other salpingo-oophoroplasty

*Excludes: that by laparoscope (65.76)*

65.74 Laparoscopic simple suture of ovary

65.75 Laparoscopic reimplantation of ovary

65.76 Laparoscopic salpingo-oophoroplasty

65.79 Other repair of ovary
Oophoropexy

65.8 **Lysis of adhesions of ovary and fallopian tube**

65.81 Laparoscopic lysis of adhesions of ovary and fallopian tube

65.89 Other lysis of adhesions of ovary and fallopian tube

*Excludes: that by laparoscope (65.81)*

65.9 **Other operations on ovary**

65.91 Aspiration of ovary

*Excludes: aspiration biopsy of ovary (65.11)*
### OPERATIONS ON THE FEMALE GENITAL ORGANS (65-71)

#### 65.92 Transplantation of ovary

*Excludes: reimplantation of ovary*
- laparoscopic (65.75)
- other (65.72)

#### 65.93 Manual rupture of ovarian cyst

#### 65.94 Ovarian denervation

#### 65.95 Release of torsion of ovary

#### 65.99 Other

- Ovarian drilling

#### 66 Operations on fallopian tubes

Code also any application or administration of an adhesion barrier substance (99.77)

##### 66.0 Salpingotomy and salpingostomy

- **66.01** Salpingotomy
- **66.02** Salpingostomy

##### 66.1 Diagnostic procedures on fallopian tubes

- **66.11** Biopsy of fallopian tube
- **66.19** Other diagnostic procedures on fallopian tubes

*Excludes: microscopic examination of specimen from fallopian tubes (91.41-91.49)*
- radiography of fallopian tubes (87.82-87.83, 87.85)
- Rubin’s test (66.8)

##### 66.2 Bilateral endoscopic destruction or occlusion of fallopian tubes

Includes: bilateral endoscopic destruction or occlusion of fallopian tubes by:
- culdoscopy
- endoscopy
- hysteroscopy
- laparoscopy
- peritoneoscopy
- endoscopic destruction of solitary fallopian tube

- **66.21** Bilateral endoscopic ligation and crushing of fallopian tubes
- **66.22** Bilateral endoscopic ligation and division of fallopian tubes
- **66.29** Other bilateral endoscopic destruction or occlusion of fallopian tubes

##### 66.3 Other bilateral destruction or occlusion of fallopian tubes

Includes: destruction of solitary fallopian tube

*Excludes: endoscopic destruction or occlusion of fallopian tubes (66.21-66.29)*

- **66.31** Other bilateral ligation and crushing of fallopian tubes
- **66.32** Other bilateral ligation and division of fallopian tubes
- Pomeroy operation
- **66.39** Other bilateral destruction or occlusion of fallopian tubes
  - Female sterilization operation NOS
66.4 Total unilateral salpingectomy

66.5 Total bilateral salpingectomy
   *Excludes:* bilateral partial salpingectomy for sterilization (66.39)
   that with oophorectomy (65.61-65.64)

66.51 Removal of both fallopian tubes at same operative episode

66.52 Removal of remaining fallopian tube
   Removal of solitary fallopian tube

66.6 Other salpingectomy
   Includes: salpingectomy by:
   - cautery
   - coagulation
   - electrocoagulation
   - excision
   *Excludes:* fistulectomy (66.73)

66.61 Excision or destruction of lesion of fallopian tube
   *Excludes:* biopsy of fallopian tube (66.11)

66.62 Salpingectomy with removal of tubal pregnancy
   Code also any synchronous oophorectomy (65.31, 65.39)

66.63 Bilateral partial salpingectomy, not otherwise specified

66.69 Other partial salpingectomy

66.7 Repair of fallopian tube

66.71 Simple suture of fallopian tube

66.72 Salpingo-oophorostomy

66.73 Salpingo-salpingostomy

66.74 Salpingo-uterostomy

66.79 Other repair of fallopian tube
   - Graft of fallopian tube
   - Reopening of divided fallopian tube
   - Salpingoplasty

66.8 Insufflation of fallopian tube
   Insufflation of fallopian tube with:
   - air
   - dye
   - gas
   - saline
   - Rubin's test
   *Excludes:* insufflation of therapeutic agent (66.95)
   that for hysterosalpingography (87.82-87.83)

66.9 Other operations on fallopian tubes

66.91 Aspiration of fallopian tube

66.92 Unilateral destruction or occlusion of fallopian tube
   *Excludes:* that of solitary tube (66.21-66.39)
66.93 Implantation or replacement of prosthesis of fallopian tube
66.94 Removal of prosthesis of fallopian tube
66.95 Insufflation of therapeutic agent into fallopian tubes
66.96 Dilation of fallopian tube
66.97 Burying of fimbriae in uterine wall
66.99 Other
  Excludes: lysis of adhesions of ovary and tube
  laparoscopic (65.81)
  other (65.89)

67 Operations on cervix
  Code also any application or administration of an adhesion barrier substance (99.77)

67.0 Dilation of cervical canal
  Excludes: dilation and curettage (69.01-69.09)
  that for induction of labor (73.1)

67.1 Diagnostic procedures on cervix
  67.11 Endocervical biopsy
    Excludes: conization of cervix (67.2)
  67.12 Other cervical biopsy
    Punch biopsy of cervix NOS
    Excludes: conization of cervix (67.2)
  67.19 Other diagnostic procedures on cervix
    Excludes: microscopic examination of specimen from cervix (91.41-91.49)

67.2 Conization of cervix
  Excludes: that by:
    cryosurgery (67.33)
    electrosurgery (67.32)

67.3 Other excision or destruction of lesion or tissue of cervix
  67.31 Marsupialization of cervical cyst
  67.32 Destruction of lesion of cervix by cauterization
    Electrocoagulation of cervix
    LEEP (loop electrosurgical excision procedure)
    LLETZ (large loop excision of the transformation zone)
  67.33 Destruction of lesion of cervix by cryosurgery
    Cryoconization of cervix
  67.39 Other excision or destruction of lesion or tissue of cervix
    Excludes: biopsy of cervix (67.11-67.12)
    cervical fistulectomy (67.62)
    conization of cervix (67.2)

67.4 Amputation of cervix
  Cervicectomy with synchronous colporrhaphy
67.5 Repair of internal cervical os
   67.51 Transabdominal cerclage of cervix
   67.59 Other repair of internal cervical os
      Cerclage of isthmus uteri
      McDonald operation
      Shirodkar operation
      Transvaginal cerclage
   \textit{Excludes:} laparoscopically assisted supracervical hysterectomy
      (LASH) (68.31)
      transabdominal cerclage of cervix (67.51)

67.6 Other repair of cervix
   \textit{Excludes:} repair of current obstetric laceration (75.51)

67.61 Suture of laceration of cervix
67.62 Repair of fistula of cervix
   Cervicosigmoidal fistulectomy
   \textit{Excludes:} fistulectomy:
      cervicovesical (57.84)
      ureterocervical (56.84)
      vesicocervicovaginal (57.84)
67.69 Other repair of cervix
   Repair of old obstetric laceration of cervix

68 Other incision and excision of uterus
   Code also any application or administration of an adhesion barrier substance
      (99.77)

68.0 Hysterotomy
   Hysterotomy with removal of hydatidiform mole
   \textit{Excludes:} hysterotomy for termination of pregnancy (74.91)

68.1 Diagnostic procedures on uterus and supporting structures
68.11 Digital examination of uterus
   \textit{Excludes:} pelvic examination, so describe (89.26)
      postpartal manual exploration of uterine cavity (75.7)

68.12 Hysteroscopy
   \textit{Excludes:} that with biopsy (68.16)

68.13 Open biopsy of uterus
   \textit{Excludes:} closed biopsy of uterus (68.16)

68.14 Open biopsy of uterine ligaments
   \textit{Excludes:} closed biopsy of uterine ligaments (68.15)

68.15 Closed biopsy of uterine ligaments
   Endoscopic (laparoscopy) biopsy of uterine adnexa, except ovary and
   fallopian tube

68.16 Closed biopsy of uterus
   Endoscopic (laparoscopy) hysteroscopy biopsy of uterus
   \textit{Excludes:} open biopsy of uterus (68.13)
68.19 Other diagnostic procedures on uterus and supporting structures

Excludes: diagnostic:
- aspiration curettage (69.59)
- dilation and curettage (69.09)
- microscopic examination of specimen from uterus (91.41-91.49)
- pelvic examination (89.26)
- radioisotope scan of:
  - placenta (92.17)
  - uterus (92.19)
- ultrasonography of uterus (88.78-88.79)
- x-ray of uterus (87.81-87.89)

68.2 Excision or destruction of lesion or tissue of uterus

68.21 Division of endometrial synechiae
Lysis of intraluminal uterine adhesions

68.22 Incision or excision of congenital septum of uterus

68.23 Endometrial ablation
Dilation and curettage
Hysteroscopic endometrial ablation

68.29 Other excision or destruction of lesion of uterus
Uterine myomectomy

Excludes: biopsy of uterus (68.13, 68.16)
uterine fistulectomy (69.42)

68.3 Subtotal abdominal hysterectomy

68.31 Laparoscopic supracervical hysterectomy [LSH]
Classic infrafascial SEMM hysterectomy [CISH]
Laparoscopically assisted supracervical hysterectomy [LASH]

68.39 Other and unspecified subtotal abdominal hysterectomy, NOS
Supracervical hysterectomy

Excludes: classic infrafascial SEMM hysterectomy [CISH] (68.31)
laparoscopic supracervical hysterectomy [LSH] (68.31)

68.4 Total abdominal hysterectomy

Hysterectomy:
extended

Code also any synchronous removal of tubes and ovaries (65.31-65.64)

Excludes: radical abdominal hysterectomy, any approach (68.61 - 68.69)

68.41 Laparoscopic total abdominal hysterectomy
Total laparoscopic hysterectomy [TLH]

68.49 Other and unspecified total abdominal hysterectomy
Hysterectomy:
extended
68.5 Vaginal hysterectomy

Code also any synchronous:
- removal of tubes and ovaries (65.31-65.64)
- repair of cystocele or rectocele (70.50-70.52)
- repair of pelvic floor (70.79)

68.51 Laparoscopically assisted vaginal hysterectomy (LAVH)

68.59 Other and unspecified vaginal hysterectomy

Excludes: laparoscopically assisted vaginal hysterectomy (LAVH) (68.51)
radical vaginal hysterectomy (68.7)

68.6 Radical abdominal hysterectomy

Code also any synchronous:
- lymph gland dissection (40.3, 40.5)
- removal of tubes and ovaries (65.31-65.64)

Excludes: pelvic evisceration (68.8)

68.61 Laparoscopic radical abdominal hysterectomy

Laparoscopic modified radical hysterectomy
Total laparoscopic radical hysterectomy [TLRH]

68.69 Other and unspecified radical abdominal hysterectomy

Modified radical hysterectomy
Wertheim's operation

Excludes: laparoscopic total abdominal hysterectomy (68.41)
laparoscopic radical abdominal hysterectomy (68.61)

68.7 Radical vaginal hysterectomy

Code also any synchronous:
- lymph gland dissection (40.3, 40.5)
- removal of tubes and ovaries (65.31-65.64)

Excludes: abdominal hysterectomy, any approach (68.31-68.39, 68.41-68.49, 68.61-68.69, 68.9)

68.71 Laparoscopic radical vaginal hysterectomy [LRVH]

68.79 Other and unspecified radical vaginal hysterectomy

Hysterocolpectomy
Schauta operation

68.8 Pelvic evisceration

Removal of ovaries, tubes, uterus, vagina, bladder, and urethra (with removal of sigmoid colon and rectum)

Code also any synchronous:
- colostomy (46.12-46.13)
- lymph gland dissection (40.3, 40.5)
- urinary diversion (56.51-56.79)

68.9 Other and unspecified hysterectomy

Hysterectomy NOS

Excludes: abdominal hysterectomy, any approach (68.31-68.39, 68.41-68.49, 68.61-68.69, 68.9)
vaginal hysterectomy, any approach (68.51-68.59, 68.71-68.79)
69 Other operations on uterus and supporting structures
Code also any application or administration of an adhesion barrier substance (99.77)

69.0 Dilation and curettage of uterus
Excludes: aspiration curettage of uterus (69.51-69.59)

69.01 Dilation and curettage for termination of pregnancy

69.02 Dilation and curettage following delivery or abortion

69.09 Other dilation and curettage
  Diagnostic D and C

69.1 Excision or destruction of lesion or tissue of uterus and supporting structures

69.19 Other excision or destruction of uterus and supporting structures
Excludes: biopsy of uterine ligament (68.14)

69.2 Repair of uterine supporting structures

69.21 Interposition operation
  Watkins procedure

69.22 Other uterine suspension
  Hysteropexy
  Manchester operation
  Plication of uterine ligament

69.23 Vaginal repair of chronic inversion of uterus

69.29 Other repair of uterus and supporting structures

69.3 Paracervical uterine denervation

69.4 Uterine repair
Excludes: repair of current obstetric laceration (75.50-75.52)

69.41 Suture of laceration of uterus

69.42 Closure of fistula of uterus
Excludes: uterovesical fistulectomy (57.84)

69.49 Other repair of uterus
  Repair of old obstetric laceration of uterus

69.5 Aspiration curettage of uterus
Excludes: menstrual extraction (69.6)

69.51 Aspiration curettage of uterus for termination of pregnancy
  Therapeutic abortion NOS

69.52 Aspiration curettage following delivery or abortion

69.59 Other aspiration curettage of uterus

69.6 Menstrual extraction or regulation

69.7 Insertion of intrauterine contraceptive device
### 69.9 Other operations on uterus, cervix, and supporting structures

*Excludes:* obstetric dilation or incision of cervix *(73.1, 73.93)*

#### 69.91 Insertion of therapeutic device into uterus

*Excludes:* insertion of:
- intrauterine contraceptive device *(69.7)*
- laminaria *(69.93)*
- obstetric insertion of bag, bougie, or pack *(73.1)*

#### 69.92 Artificial insemination

#### 69.93 Insertion of laminaria

#### 69.94 Manual replacement of inverted uterus

*Excludes:* that in immediate postpartal period *(75.94)*

#### 69.95 Incision of cervix

*Excludes:* that to assist delivery *(73.93)*

#### 69.96 Removal of cerclage material from cervix

#### 69.97 Removal of other penetrating foreign body from cervix

*Excludes:* removal of intraluminal foreign body from cervix *(98.16)*

#### 69.98 Other operations on supporting structures of uterus

*Excludes:* biopsy of uterine ligament *(68.14)*

#### 69.99 Other operations on cervix and uterus

*Excludes:* removal of:
- foreign body *(98.16)*
- intrauterine contraceptive device *(97.71)*
- obstetric bag, bougie, or pack *(97.72)*
- packing *(97.72)*

### 70 Operations on vagina and cul-de-sac

Code also any application or administration of an adhesion barrier substance *(99.77)*

#### 70.0 Culdocentesis

#### 70.1 Incision of vagina and cul-de-sac

- **70.11 Hymenotomy**
- **70.12 Culdotomy**
- **70.13 Lysis of intraluminal adhesions of vagina**
- **70.14 Other vaginotomy**
  - Division of vaginal septum
  - Drainage of hematoma of vaginal cuff

#### 70.2 Diagnostic procedures on vagina and cul-de-sac

- **70.21 Vaginoscopy**
- **70.22 Culdoscopy**
- **70.23 Biopsy of cul-de-sac**
- **70.24 Vaginal biopsy**
- **70.29 Other diagnostic procedures on vagina and cul-de-sac**
70.3 Local excision or destruction of vagina and cul-de-sac

**70.31** Hymenectomy

**70.32** Excision or destruction of lesion of cul-de-sac
   - Endometrectomy of cul-de-sac
   *Excludes: biopsy of cul-de-sac (70.23)*

**70.33** Excision or destruction of lesion of vagina
   *Excludes: biopsy of vagina (70.24)
   vaginal fistulectomy (70.72-70.75)*

**70.4 Obliteration and total excision of vagina**
   - Vaginectomy
   *Excludes: obliteration of vaginal vault (70.8)*

**70.5 Repair of cystocele and rectocele**

**70.50** Repair of cystocele and rectocele
   *Excludes: repair of cystocele and rectocele with graft or prosthesis (70.53)*

**70.51** Repair of cystocele
   - Anterior colporrhaphy (with urethrocele repair)
   *Excludes: repair of cystocele and rectocele with graft or prosthesis (70.53)
   repair of cystocele with graft or prosthesis (70.54)*

**70.52** Repair of rectocele
   - Posterior colporrhaphy
   *Excludes: STARR procedure (48.74)
   repair of cystocele and rectocele with graft or prosthesis (70.53)
   repair of rectocele with graft or prosthesis (70.55)*

**70.53** Repair of cystocele and rectocele with graft or prosthesis
   Use additional code for biological substance (70.94) or synthetic substance (70.95), if known

**70.54** Repair of cystocele with graft or prosthesis
   - Anterior colporrhaphy (with urethrocele repair)
   Use additional code for biological substance (70.94) or synthetic substance (70.95), if known

**70.55** Repair of rectocele with graft or prosthesis
   - Posterior colporrhaphy
   Use additional code for biological substance (70.94) or synthetic substance (70.95), if known

**70.6 Vaginal construction and reconstruction**

**70.61** Vaginal construction

**70.62** Vaginal reconstruction
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<tr>
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<th>Description</th>
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<td>Other repair of vagina</td>
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<td>Suture of laceration of vagina</td>
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<td>70.72</td>
<td>Repair of colovaginal fistula</td>
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<td>70.73</td>
<td>Repair of rectovaginal fistula</td>
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<td>Repair of other vaginoenteric fistula</td>
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<td>Hymenorrhaphy</td>
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<td>Vaginal suspension and fixation</td>
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<td>Vaginal suspension and fixation with graft or prosthesis</td>
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<td>Colpoperineoplasty</td>
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<td>Repair of old obstetric laceration of vagina</td>
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<td>70.8</td>
<td>Obliteration of vaginal vault</td>
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<td></td>
<td>LeFort operation</td>
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</table>
70.9 Other operations on vagina and cul-de-sac

70.91 Other operations on vagina

Excludes: insertion of:
- diaphragm (96.17)
- mold (96.15)
- pack (96.14)
- pessary (96.18)
- suppository (96.49)

Removal of:
- diaphragm (97.73)
- foreign body (98.17)
- pack (97.75)
- pessary (97.74)

Replacement of:
- diaphragm (97.24)
- pack (97.26)
- pessary (97.25)
- vaginal dilation (96.16)
- vaginal douche (96.44)

70.92 Other operations on cul-de-sac

Obliteration of cul-de-sac
Repair of vaginal enterocele

70.93 Other operations on cul-de-sac with graft or prosthesis

Repair of vaginal enterocele with graft or prosthesis
Use additional code for biological substance (70.94) or synthetic substance (70.95), if known

70.94 Insertion of biological graft

Allogenic material or substance
- Allograft
- Autograft
- Autologous material or substance
- Heterograft
- Xenogenic material or substance

Code first these procedures when done with graft or prosthesis:
- Other operations on cul-de-sac (70.93)
- Repair of cystocele (70.54)
- Repair of cystocele and rectocele (70.53)
- Repair of rectocele (70.55)
- Vaginal construction (70.63)
- Vaginal reconstruction (70.64)
- Vaginal suspension and fixation (70.78)

70.95 Insertion of synthetic graft or prosthesis

Artificial tissue

Code first these procedures when done with graft or prosthesis:
- Other operations on cul-de-sac (70.93)
- Repair of cystocele (70.54)
- Repair of cystocele and rectocele (70.53)
- Repair of rectocele (70.55)
- Vaginal construction (70.63)
- Vaginal reconstruction (70.64)
- Vaginal suspension and fixation (70.78)
### 71 Operations on vulva and perineum

Code also any application or administration of an adhesion barrier substance (99.77)

#### 71.0 Incision of vulva and perineum

- **71.01** Lysis of vulvar adhesions
- **71.09** Other incision of vulva and perineum
  - Enlargement of introitus NOS
  
  *Excludes: removal of foreign body without incision (98.23)*

#### 71.1 Diagnostic procedures on vulva

- **71.11** Biopsy of vulva
- **71.19** Other diagnostic procedures on vulva

#### 71.2 Operations on Bartholin's gland

- **71.21** Percutaneous aspiration of Bartholin's gland (cyst)
- **71.22** Incision of Bartholin's gland (cyst)
- **71.23** Marsupialization of Bartholin's gland (cyst)
- **71.24** Excision or other destruction of Bartholin's gland (cyst)
- **71.29** Other operations on Bartholin's gland

#### 71.3 Other local excision or destruction of vulva and perineum

- Division of Skene's gland

  *Excludes: biopsy of vulva (71.11)*
  *vulvar fistulectomy (71.72)*

#### 71.4 Operations on clitoris

- Amputation of clitoris
- Clitoridotomy
- Female circumcision

#### 71.5 Radical vulvectomy

- Code also any synchronous lymph gland dissection (40.3, 40.5)

#### 71.6 Other vulvectomy

- **71.61** Unilateral vulvectomy
- **71.62** Bilateral vulvectomy
  - Vulvectomy NOS

#### 71.7 Repair of vulva and perineum

  *Excludes: repair of current obstetric laceration (75.69)*

- **71.71** Suture of laceration of vulva or perineum
- **71.72** Repair of fistula of vulva or perineum

  *Excludes: repair of fistula:
  - urethroperineal (58.43)
  - urethroperineovesical (57.84)
  - vaginoperineal (70.75)*

- **71.79** Other repair of vulva and perineum
  - Repair of old obstetric laceration of vulva or perineum
**71.8** Other operations on vulva

*Excludes:* removal of:
- foreign body without incision (98.23)
- packing (97.75)
- replacement of packing (97.26)

**71.9** Other operations on female genital organs
13. OBSTETRICAL PROCEDURES (72-75)

72  Forceps, vacuum, and breech delivery

72.0  Low forceps operation
   Outlet forceps operation

72.1  Low forceps operation with episiotomy
   Outlet forceps operation with episiotomy

72.2  Mid forceps operation
   72.21  Mid forceps operation with episiotomy
   72.29  Other mid forceps operation

72.3  High forceps operation
   72.31  High forceps operation with episiotomy
   72.39  Other high forceps operation

72.4  Forceps rotation of fetal head
   DeLee maneuver
   Key-in-lock rotation
   Kielland rotation
   Scanzoni's maneuver
   Code also any associated forceps extraction (72.0-72.39)

72.5  Breech extraction
   72.51  Partial breech extraction with forceps to aftercoming head
   72.52  Other partial breech extraction
   72.53  Total breech extraction with forceps to aftercoming head
   72.54  Other total breech extraction

72.6  Forceps application to aftercoming head
   Piper forceps operation
   Excludes: partial breech extraction with forceps to aftercoming head (72.51)
            total breech extraction with forceps to aftercoming head (72.53)

72.7  Vacuum extraction
   Includes: Malström's extraction
   72.71  Vacuum extraction with episiotomy
   72.79  Other vacuum extraction

72.8  Other specified instrumental delivery

72.9  Unspecified instrumental delivery
73 Other procedures inducing or assisting delivery

73.0 Artificial rupture of membranes
   73.01 Induction of labor by artificial rupture of membranes
      Surgical induction NOS
      Excludes: artificial rupture of membranes after onset of labor (73.09)
   73.09 Other artificial rupture of membranes
      Artificial rupture of membranes at time of delivery

73.1 Other surgical induction of labor
   Induction by cervical dilation
   Excludes: Injection for abortion (75.0)
              insertion of suppository for abortion (96.49)

73.2 Internal and combined version and extraction
   73.21 Internal and combined version without extraction
      Version NOS
   73.22 Internal and combined version with extraction

73.3 Failed forceps
   Application of forceps without delivery
   Trial forceps

73.4 Medical induction of labor
   Excludes: medication to augment active labor -- omit code

73.5 Manually assisted delivery
   73.51 Manual rotation of fetal head
   73.59 Other manually assisted delivery
      Assisted spontaneous delivery
      Crede maneuver

73.6 Episiotomy
   Episioproctotomy
   Episiotomy with subsequent episiorrhaphy
   Excludes: that with:
              high forceps (72.31)
              low forceps (72.1)
              mid forceps (72.21)
              outlet forceps (72.1)
              vacuum extraction (72.71)

73.8 Operations on fetus to facilitate delivery
   Clavicotomy on fetus
   Destruction of fetus
   Needling of hydrocephalic head

73.9 Other operations assisting delivery
   73.91 External version
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>73.92</td>
<td>Replacement of prolapsed umbilical cord</td>
</tr>
</tbody>
</table>
| 73.93 | Incision of cervix to assist delivery  
       Dührssen's incisions |
| 73.94 | Pubiotomy to assist delivery  
       Obstetrical symphysiotomy |
| 73.99 | Other  
       *Excludes:* dilation of cervix, obstetrical to induce labor (73.1)  
                insertion of bag or bougie to induce labor (73.1)  
                removal of cerclage material (69.96) |

### 74 Cesarean section and removal of fetus

Code also any synchronous:
- hysterectomy (68.3-68.4, 68.6, 68.8)
- myomectomy (68.29)
- sterilization (66.31-66.39, 66.63)

#### 74.0 Classical cesarean section
Transperitoneal classical cesarean section

#### 74.1 Low cervical cesarean section
Lower uterine segment cesarean section

#### 74.2 Extraperitoneal cesarean section
Supravesical cesarean section

#### 74.3 Removal of extratubal ectopic pregnancy
Removal of:
- ectopic abdominal pregnancy
- fetus from peritoneal or extraperitoneal cavity following uterine or tubal rupture  
*Excludes:* that by salpingostomy (66.02)  
that by salpingotomy (66.01)  
that with synchronous salpingectomy (66.62)

#### 74.4 Cesarean section of other specified type
- Peritoneal exclusion cesarean section  
- Transperitoneal cesarean section NOS  
- Vaginal cesarean section

#### 74.9 Cesarean section of unspecified type

##### 74.91 Hysterotomy to terminate pregnancy
Therapeutic abortion by hysterotomy

##### 74.99 Other cesarean section of unspecified type
- Cesarean section NOS  
- Obstetrical abdominouterotomy  
- Obstetrical hysterotomy
75  Other obstetric operations

75.0  Intra-amniotic injection for abortion
   Injection of:
   prostaglandin for induction of abortion
   saline for induction of abortion
   Termination of pregnancy by intrauterine injection

   Excludes: insertion of prostaglandin suppository for abortion (96.49)

75.1  Diagnostic amniocentesis

75.2  Intrauterine transfusion
   Exchange transfusion in utero
   Insertion of catheter into abdomen of fetus for transfusion
   Code also any hysterotomy approach (68.0)

75.3  Other intrauterine operations on fetus and amnion
   Code also any hysterotomy approach (68.0)

75.31  Amnioscopy
   Fetoscopy
   Laparoamnioscopy

75.32  Fetal EKG (scalp)

75.33  Fetal blood sampling and biopsy

75.34  Other fetal monitoring
   Antepartum fetal nonstress test
   Fetal monitoring, not otherwise specified

   Excludes: fetal pulse oximetry (75.38)

75.35  Other diagnostic procedures on fetus and amnion
   Intrauterine pressure determination

   Excludes: amniocentesis (75.1)
   diagnostic procedures on gravid uterus and placenta (87.81, 88.46, 88.78, 92.17)

75.36  Correction of fetal defect

75.37  Amnioinfusion
   Code also injection of antibiotic (99.21)

75.38  Fetal pulse oximetry
   Transcervical fetal oxygen saturation monitoring
   Transcervical fetal SpO₂ monitoring

75.4  Manual removal of retained placenta

   Excludes: aspiration curettage (69.52)
   dilation and curettage (69.02)
75.5 Repair of current obstetric laceration of uterus
   75.50 Repair of current obstetric laceration of uterus, not otherwise specified
   75.51 Repair of current obstetric laceration of cervix
   75.52 Repair of current obstetric laceration of corpus uteri

75.6 Repair of other current obstetric laceration
   75.61 Repair of current obstetric laceration of bladder and urethra
   75.62 Repair of current obstetric laceration of rectum and sphincter ani
   75.69 Repair of other current obstetric laceration
      Episioperineorrhaphy
      Repair of:
      pelvic floor
      perineum
      vagina
      vulva
      Secondary repair of episiotomy
      Excludes: repair of routine episiotomy (73.6)

75.7 Manual exploration of uterine cavity, postpartum

75.8 Obstetric tamponade of uterus or vagina
   Excludes: antepartum tamponade (73.1)

75.9 Other obstetric operations
   75.91 Evacuation of obstetrical incisional hematoma of perineum
      Evacuation of hematoma of:
      episiotomy perineorrhaphy
   75.92 Evacuation of other hematoma of vulva or vagina
   75.93 Surgical correction of inverted uterus
      Spintelli operation
      Excludes: vaginal repair of chronic inversion of uterus (69.23)
   75.94 Manual replacement of inverted uterus
   75.99 Other
14. OPERATIONS ON THE MUSCULOSKELETAL SYSTEM (76-84)

76 Operations on facial bones and joints

Excludes: accessory sinuses (22.00-22.9)
          nasal bones (21.00-21.99)
          skull (01.01-02.99)

76.0 Incision of facial bone without division

76.01 Sequestrectomy of facial bone
    Removal of necrotic bone chip from facial bone

76.09 Other incision of facial bone
    Reopening of osteotomy site of facial bone
    Excludes: osteotomy associated with orthognathic surgery (76.61-76.69)
              removal of internal fixation device (76.97)

76.1 Diagnostic procedures on facial bones and joints

76.11 Biopsy of facial bone

76.19 Other diagnostic procedures on facial bones and joints
    Excludes: contrast arthrogram of temporomandibular joint (87.13)
              other x-ray (87.11-87.12, 87.14-87.16)

76.2 Local excision or destruction of lesion of facial bone

Excludes: biopsy of facial bone (76.11)
          excision of odontogenic lesion (24.4)

76.3 Partial ostectomy of facial bone

76.31 Partial mandibulectomy
    Hemimandibulectomy
    Excludes: that associated with temporomandibular arthroplasty (76.5)

76.39 Partial ostectomy of other facial bone
    Hemimaxillectomy (with bone graft or prosthesis)

76.4 Excision and reconstruction of facial bones

76.41 Total mandibulectomy with synchronous reconstruction

76.42 Other total mandibulectomy

76.43 Other reconstruction of mandible
    Excludes: genioplasty (76.67-76.68)
              that with synchronous total mandibulectomy (76.41)

76.44 Total ostectomy of other facial bone with synchronous reconstruction

76.45 Other total ostectomy of other facial bone

76.46 Other reconstruction of other facial bone
    Excludes: that with synchronous total ostectomy (76.44)

76.5 Temporomandibular arthroplasty
76.6 Other facial bone repair and orthognathic surgery

Code also any synchronous:
- bone graft (76.91)
- synthetic implant (76.92)

Excludes: reconstruction of facial bones (76.41-76.46)

76.61 Closed osteoplasty [osteotomy] of mandibular ramus
  Gigli saw osteotomy

76.62 Open osteoplasty [osteotomy] of mandibular ramus

76.63 Osteoplasty [osteotomy] of body of mandible

76.64 Other orthognathic surgery on mandible
  Mandibular osteoplasty NOS
  Segmental or subapical osteotomy

76.65 Segmental osteoplasty [osteotomy] of maxilla
  Maxillary osteoplasty NOS

76.66 Total osteoplasty [osteotomy] of maxilla

76.67 Reduction genioplasty
  Reduction mentoplasty

76.68 Augmentation genioplasty
  Mentoplasty:
    NOS
    with graft or implant

76.69 Other facial bone repair
  Osteoplasty of facial bone NOS

76.7 Reduction of facial fracture

Includes: internal fixation

Code also any synchronous:
- bone graft (76.91)
- synthetic implant (76.92)

Excludes: that of nasal bones (21.71-21.72)

76.70 Reduction of facial fracture, not otherwise specified

76.71 Closed reduction of malar and zygomatic fracture

76.72 Open reduction of malar and zygomatic fracture

76.73 Closed reduction of maxillary fracture

76.74 Open reduction of maxillary fracture

76.75 Closed reduction of mandibular fracture

76.76 Open reduction of mandibular fracture

76.77 Open reduction of alveolar fracture
  Reduction of alveolar fracture with stabilization of teeth

76.78 Other closed reduction of facial fracture
  Closed reduction of orbital fracture

Excludes: nasal bone (21.71)

76.79 Other open reduction of facial fracture
  Open reduction of orbit rim or wall

Excludes: nasal bone (21.72)
76.9 Other operations on facial bones and joints

- **76.91 Bone graft to facial bone**
  - Autogenous graft to facial bone
  - Bone bank graft to facial bone
  - Heterogenous graft to facial bone

- **76.92 Insertion of synthetic implant in facial bone**
  - Alloplastic implant to facial bone

- **76.93 Closed reduction of temporomandibular dislocation**

- **76.94 Open reduction of temporomandibular dislocation**

- **76.95 Other manipulation of temporomandibular joint**

- **76.96 Injection of therapeutic substance into temporomandibular joint**

- **76.97 Removal of internal fixation device from facial bone**
  
  *Excludes:* removal of:
  - dental wiring (97.33)
  - external mandibular fixation device NEC (97.36)

- **76.99 Other**

---

**77 Incision, excision, and division of other bones**

*Excludes:* laminectomy for decompression (03.09)

operations on:

- accessory sinuses (22.00-22.9)
- ear ossicles (19.0-19.55)
- facial bones (76.01-76.99)
- joint structures (80.00-81.99)
- mastoid (19.9-20.99)
- nasal bones (21.00-21.99)
- skull (01.01-02.99)

The following fourth-digit subclassification is for use with appropriate categories in section 77 to identify the site. Valid fourth-digit categories are in brackets under each code.

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<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>unspecified site</td>
</tr>
<tr>
<td>1</td>
<td>scapula, clavicle, and thorax [ribs and sternum]</td>
</tr>
<tr>
<td>2</td>
<td>humerus</td>
</tr>
<tr>
<td>3</td>
<td>radius and ulna</td>
</tr>
<tr>
<td>4</td>
<td>carpals and metacarpals</td>
</tr>
<tr>
<td>5</td>
<td>femur</td>
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<td>6</td>
<td>patella</td>
</tr>
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<td>7</td>
<td>tibia and fibula</td>
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<td>tarsals and metatarsals</td>
</tr>
<tr>
<td>9</td>
<td>other</td>
</tr>
<tr>
<td></td>
<td>Pelvic bones</td>
</tr>
<tr>
<td></td>
<td>Phalanges (of foot) (of hand)</td>
</tr>
<tr>
<td></td>
<td>Vertebrae</td>
</tr>
</tbody>
</table>

---

**77.0 Sequestrectomy**

[0-9]
77.1 Other incision of bone without division

- Reopening of osteotomy site

Excludes: aspiration of bone marrow (41.31, 41.91)
 removal of internal fixation device (78.60-78.69)

77.2 Wedge osteotomy

Excludes: that for hallux valgus (77.51)

77.3 Other division of bone

- Osteoarthrotomy

Excludes: clavicotomy of fetus (73.8)
laminotomy or incision of vertebra (03.01-03.09)
pubiotomy to assist delivery (73.94)
sternotomy incidental to thoracic operation --omit code

77.4 Biopsy of bone

77.5 Excision and repair of bunion and other toe deformities

- Bunionectomy with soft tissue correction and osteotomy of the first metatarsal
- Bunionectomy with soft tissue correction and arthrodesis
- Other bunionectomy with soft tissue correction
- Excision or correction of bunionette
  That with osteotomy
- Repair of hammer toe
  Fusion of hammer toe
  Phalangectomy (partial) of hammer toe
  Filleting of hammer toe
- Repair of claw toe
  Fusion of claw toe
  Phalangectomy (partial) of claw toe
  Capsulotomy of claw toe
  Tendon lengthening of claw toe
- Other excision, fusion and repair of toes
  Cockup toe repair
  Overlapping toe repair
  That with use of prosthetic materials
- Other bunionectomy
  Resection of hallux valgus joint with insertion of prosthesis

77.6 Local excision of lesion or tissue of bone

Excludes: biopsy of bone (77.40-77.49)
debridement of compound fracture (79.60-79.69)

77.7 Excision of bone for graft

[0-9] OR procedure
[ ] Non OR procedure but affects ThaiDRG
77.8 Other partial ostectomy

Condylectomy

Excludes: amputation (84.00-84.19, 84.91)
arthrectomy (80.90-80.99)
excision of bone ends associated with:
arthrodesis (81.00-81.39, 81.62-81.66)
arthroplasty (81.40-81.59, 81.71-81.85)
excision of cartilage (80.5-80.6, 80.80-80.99)
excision of head of femur with synchronous replacement
(00.70-00.73, 81.51-81.53)
hemilaminectomy (03.01-03.09)
laminectomy (03.01-03.09)
ostectomy for hallux valgus (77.51-77.59)
partial amputation:
finger (84.01)
thumb (84.02)
toe (84.11)
reseccion of ribs incidental to thoracic operation --omit code
that incidental to other operation --omit code

77.9 Total ostectomy

Excludes: amputation of limb (84.00-84.19, 84.91)
that incidental to other operation --omit code

78 Other operations on bones, except facial bones

Excludes: operations on:
accessory sinuses (22.00-22.9)
facial bones (76.01-76.99)
joint structures (80.00-81.99)
nasal bones (21.00-21.99)
skull (01.01-02.99)

The following fourth- digit subclassification is for use with categories in
section 78 to identify the site. Valid fourth- digit categories are in [brackets]
der under each code.

0 unspecified site
1 scapula, clavicle, and thorax [ribs and sternum]
2 humerus
3 radius and ulna
4 carpals and metacarpals
5 femur
6 patella
7 tibia and fibula
8 tarsals and metatarsals
9 other
   Pelvic bones
   Phalanges (of foot) (of hand)
   Vertebrae
**78.0 Bone graft**

- Bone:
  - Bank graft
  - Autogenous (heterogenous)
  - That with debridement of bone graft site (removal of sclerosed, fibrous or necrotic bone or tissue)
  - Transplantation of bone

Code also any excision of bone for graft **(77.70-77.79)**

*Excludes: that for bone lengthening **(78.30-78.39)***

**78.1 Application of external fixator device**

- Fixator with insertion of pins/wires/screws into bone

Code also any type of fixator device, if known **(84.71-84.73)**

*Excludes: other immobilization, pressure, and attention to wound **(93.51-93.59)***

**78.2 Limb shortening procedures**

- Epiphyseal stapling
- Open epiphysiodesis
- Percutaneous epiphysiodesis
- Resection/osteotomy

**78.3 Limb lengthening procedures**

- Bone graft with or without internal fixation devices or osteotomy
- Distraction technique with or without corticotomy/osteotomy

Code also any application of an external fixation device **(78.10-78.19)**

**78.4 Other repair or plastic operations on bone**

- Other operation on bone NEC
- Repair of malunition or nonunion fracture NEC

*Excludes: application of external fixation device **(78.10-78.19)**
  - Limb shortening procedures **(78.30-78.39)**
  - Internal fixation of bone **(78.00-78.09)**
  - Repair with bone graft **(78.00-78.09)**
  - Arthroplasty and arthrodesis **(81.00-81.85)**
  - Limb shortening procedures **(78.20-78.29)**
  - That for fracture reduction **(79.10-79.19, 79.30-79.59)**

**78.5 Internal fixation of bone without fracture reduction**

- Internal fixation of bone (prophylactic)
- Reinsertion of internal fixation device
- Revision of displaced or broken fixation device

*Excludes: arthroplasty and arthrodesis **(81.00-81.85)**
  - Bone graft **(78.00-78.09)**
  - Limb shortening procedures **(78.20-78.29)**
  - That for fracture reduction **(79.10-79.19, 79.30-79.59)**
78.6 Removal of implanted devices from bone
0-9
External fixator device (invasive)
Internal fixation device
Removal of bone growth stimulator (invasive)
Removal of internal limb lengthening device
Removal of pedicle screw(s) used in spinal fusion

*Excludes:* removal of cast, splint, and traction device (Kirschner wire)
(Steinmann pin) (97.88)
removal of skull tongs or halo traction device (02.95)
removal of posterior spinal motion preservation (facet replacement, pedicle-based dynamic stabilization, interspinous process) device(s) (80.09)

78.7 Osteoclasia

78.8 Diagnostic procedures on bone, not elsewhere classified
0-9
*Excludes:* biopsy of bone (77.40-77.49)
magnetic resonance imaging (88.94)
microscopic examination of specimen from bone (91.51-91.59)
radioisotope scan (92.14)
skeletal x-ray (87.21-87.29, 87.43, 88.21-88.33)
thermography (88.83)

78.9 Insertion of bone growth stimulator
0-9
Insertion of:
bone stimulator (electrical) to aid bone healing
ostogenic electrodes for bone growth stimulation
totally implanted device (invasive)

*Excludes:* non-invasive (transcutaneous) (surface) stimulator (99.86)

79 Reduction of fracture and dislocation
Includes: application of cast or splint
reduction with insertion of traction device (Kirschner wire)
(Steinmann pin)

Code also any:
application of external fixator device (78.10-78.19)
type of fixator device, if known (84.71-84.73)

*Excludes:* external fixation alone for immobilization of fracture
(93.51-93.56, 93.59)
internal fixation without reduction of fracture (78.50-78.59)
operations on:
facial bones (76.70-76.79)
nasal bones (21.71-21.72)
orbit (76.78-76.79)
skull (02.02)
vertebrae (03.53)
removal of cast or splint (97.88)
replacement of cast or splint (97.11-97.14)
traction alone for reduction of fracture (93.41-93.46)

The following fourth-digit subclassification is for use with appropriate
categories in section 79 to identify the site. Valid fourth-digit categories are in [brackets] under each code.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>humerus</td>
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<tr>
<td>2</td>
<td>radius and ulna</td>
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<td>Arm NOS</td>
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<td>carpal and metacarpals</td>
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<td>Hand NOS</td>
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<tr>
<td>8</td>
<td>phalanges of foot</td>
</tr>
<tr>
<td>9</td>
<td>other specified bone</td>
</tr>
</tbody>
</table>

79.0 Closed reduction of fracture without internal fixation
[0-9] Excludes: that for separation of epiphysis (79.40-79.49)

79.1 Closed reduction of fracture with internal fixation
[0-9] Excludes: that for separation of epiphysis (79.40-79.49)

79.2 Open reduction of fracture without internal fixation
[0-9] Excludes: that for separation of epiphysis (79.50-79.59)

79.3 Open reduction of fracture with internal fixation
[0-9] Excludes: that for separation of epiphysis (79.50-79.59)

79.4 Closed reduction of separated epiphysis
[0-2,5,6,9] Reduction with or without internal fixation

79.5 Open reduction of separated epiphysis
[0-2,5,6,9] Reduction with or without internal fixation

79.6 Debridement of open fracture site
[0-9] Debridement of compound fracture

79.7 Closed reduction of dislocation
Includes: closed reduction (with external traction device)
Excludes: closed reduction of dislocation of temporomandibular joint (76.93)

79.70 Closed reduction of dislocation of unspecified site
79.71 Closed reduction of dislocation of shoulder
79.72 Closed reduction of dislocation of elbow
79.73 Closed reduction of dislocation of wrist
79.74 Closed reduction of dislocation of hand and finger
79.75 Closed reduction of dislocation of hip
79.76 Closed reduction of dislocation of knee
79.77 Closed reduction of dislocation of ankle
79.78 Closed reduction of dislocation of foot and toe
79.79 Closed reduction of dislocation of other specified sites
79.8 Open reduction of dislocation
Includes: open reduction (with internal and external fixation devices)
Excludes: open reduction of dislocation of temporomandibular joint (76.94)
79.80 Open reduction of dislocation of unspecified site
79.81 Open reduction of dislocation of shoulder
79.82 Open reduction of dislocation of elbow
79.83 Open reduction of dislocation of wrist
79.84 Open reduction of dislocation of hand and finger
79.85 Open reduction of dislocation of hip
79.86 Open reduction of dislocation of knee
79.87 Open reduction of dislocation of ankle
79.88 Open reduction of dislocation of foot and toe
79.89 Open reduction of dislocation of other specified sites

79.9 Unspecified operation on bone injury [0-9]

80 Incision and excision of joint structures
Includes: operations on:
capsule of joint
cartilage
condyle
ligament
meniscus
synovial membrane
Excludes: cartilage of:
ear (18.01-18.9)
nose (21.00-21.99)
temporomandibular joint (76.01-76.99)
The following fourth-digit subclassification is for use with appropriate categories in section 80 to identify the site:

<table>
<thead>
<tr>
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<tr>
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<td>knee</td>
</tr>
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<td>7</td>
<td>ankle</td>
</tr>
<tr>
<td>8</td>
<td>foot and toe</td>
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<tr>
<td>9</td>
<td>other specified sites</td>
</tr>
<tr>
<td></td>
<td>Spine</td>
</tr>
</tbody>
</table>
**80.0** Arthrotonomy for removal of prosthesis without replacement

Includes removal of posterior spinal motion preservation (dynamic stabilization, facet replacement, interspinous process) device(s)
Code also any:
- insertion of (cement)(joint) (methylmethacrylate) spacer
- removal of (cement)(joint) (methylmethacrylate) spacer

*Excludes:* removal of pedicle screws used in spinal fusion (78.69)

**80.1** Other arthrotonomy

Arthrostomy

*Excludes:* that for:
- arthrography (88.32)
- arthroscopy (80.20-80.29)
- injection of drug (81.92)
- operative approach -- omit code

**80.2** Arthroscopy

**80.3** Biopsy of joint structure

Aspiration biopsy

**80.4** Division of joint capsule, ligament, or cartilage

Goldner clubfoot release
Heyman-Herndon(- Strong) correction of metatarsus varus
Release of:
- adherent or constrictive joint capsule
- joint
- ligament

*Excludes:* symphysiotomy to assist delivery (73.94)
- carpal tunnel syndrome (04.43)
- tarsal tunnel syndrome (04.44)

**80.5** Excision, destruction and other repair of intervertebral disc

**80.50** Excision or destruction of intervertebral disc, unspecified

Unspecified as to excision or destruction

**80.51** Excision of intervertebral disc

Diskectomy
Removal of herniated nucleus pulposus
Level:
- cervical
- thoracic
- lumbar (lumbosacral)
That by laminotomy or hemilaminectomy
That with decompression of spinal nerve root at same level
Requires additional code for any concomitant decompression of spinal nerve root at different level from excision site
Code also any concurrent spinal fusion (81.00 - 81.09)
Code also any repair of the anulus fibrosus (80.53-80.54)
Excludes: that for insertion of (non-fusion) spinal disc replacement device
(84.60 - 84.69)
that with corpectomy, (vertebral) (80.99)  
intervertebral chemonucleolysis (80.52)  
laminectomy for exploration of intraspinal canal (03.09)  
laminotomy for decompression of spinal nerve root only (03.09)

80.52 Intervertebral chemonucleolysis
With aspiration of disc fragments  
With diskography
Injection of proteolytic enzyme into intervertebral space  
(chymopapain)
Excludes: injection of anesthetic substance (03.91)  
injection of other substances (03.92)

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)

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)

80.59 Other destruction of intervertebral disc
Destruction NEC  
That by laser

80.6 Excision of semilunar cartilage of knee
Excision of meniscus of knee

80.7 Synovectomy
Complete or partial resection of synovial membrane
Excludes: excision of Baker's cyst (83.39)

80.8 Other local excision or destruction of lesion of joint
Excludes: cheilectomy of joint (77.80-77.89)  
excision of bone ends (77.80-77.89)

80.9 Other excision of joint
Excludes: cheilectomy of joint (77.80-77.89)  
excision of bone ends (77.80-77.89)
81  Repair and plastic operations on joint structures

81.0  Spinal fusion

Includes: arthrodesis of spine with:
- bone graft
- internal fixation

Code also any insertion of interbody spinal fusion device (84.51)
Code also any insertion of recombinant bone morphogenetic protein (84.52)
Code also the total number of vertebrae fused (81.62-81.64)
Code also any synchronous excision of (locally) harvested bone for graft (77.70-77.79)

Excludes: correction of pseudarthrosis of spine (81.30-81.39)
- refusion of spine (81.30-81.39)

81.00  Spinal fusion, not otherwise specified

81.01  Atlas-axis spinal fusion
- Craniocervical fusion by anterior, transoral, or posterior technique
- C1-C2 fusion by anterior, transoral, or posterior technique
- Occiput C2 fusion by anterior, transoral, or posterior technique

81.02  Other cervical fusion, anterior technique
- Arthrodesis of C2 level or below:
  - anterior (interbody) technique
  - anterolateral technique

81.03  Other cervical fusion, posterior technique
- Arthrodesis of C2 level or below:
  - posterior (interbody) technique
  - posterolateral technique

81.04  Dorsal and dorsolumbar fusion, anterior technique
- Arthrodesis of thoracic or thoracolumbar region:
  - anterior (interbody) technique
  - anterolateral technique

81.05  Dorsal and dorsolumbar fusion, posterior technique
- Arthrodesis of thoracic or thoracolumbar region:
  - posterior (interbody) technique
  - posterolateral technique

81.06  Lumbar and lumbosacral fusion, anterior technique
- Anterior lumbar interbody fusion (ALIF)
- Arthrodesis of lumbar or lumbosacral region:
  - anterior (interbody) technique
  - anterolateral technique

81.07  Lumbar and lumbosacral fusion, lateral transverse process technique

81.08  Lumbar and lumbosacral fusion, posterior technique
- Arthrodesis of lumbar or lumbosacral region:
  - posterior (interbody) technique
  - posterolateral technique
- Posterior lumbar interbody fusion (PLIF)
- Transforaminal lumbar interbody fusion (TLIF)
81.1 Arthrodesis and arthroereisis of foot and ankle
Includes: arthrodesis of foot and ankle with:
- bone graft
- external fixation device

81.11 Ankle fusion
Tibiotalar fusion

81.12 Triple arthrodesis
Talus to calcaneus and calcaneus to cuboid and navicular

81.13 Subtalar fusion
*Excludes: arthroereisis (81.18)*

81.14 Midtarsal fusion

81.15 Tarsometatarsal fusion

81.16 Metatarsophalangeal fusion

81.17 Other fusion of foot

81.18 Subtalar joint arthroereisis

81.2 Arthrodesis of other joint
Includes: arthrodesis with:
- bone graft
- external fixation device
- excision of bone ends and compression

81.20 Arthrodesis of unspecified joint

81.21 Arthrodesis of hip

81.22 Arthrodesis of knee

81.23 Arthrodesis of shoulder

81.24 Arthrodesis of elbow

81.25 Carporadial fusion

81.26 Metacarpocarpal fusion

81.27 Metacarpophalangeal fusion

81.28 Interphalangeal fusion

81.29 Arthrodesis of other specified joints

81.3 Refusion of spine
Includes: arthrodesis of spine with:
- bone graft
- internal fixation
- correction of pseudarthrosis of spine

Code also any insertion of interbody spinal fusion device (84.51)
Code also any insertion of recombinant bone morphogenetic protein (84.52)
Code also the total number of vertebrae fused (81.62-81.64)
Code also any synchronous excision of (locally) harvested bone for graft (77.70-77.79)

81.30 Refusion of spine, not otherwise specified
81.31 Refusion of atlas-axis spine
Craniovertebral fusion by anterior, transoral, or posterior technique
C1-C2 fusion by anterior, transoral, or posterior technique
Occiput C2 fusion by anterior, transoral, or posterior technique

81.32 Refusion of other cervical spine, anterior technique
Arthrodesis of C2 level or below:
  anterior (interbody) technique
  anterolateral technique

81.33 Refusion of other cervical spine, posterior technique
Anterior lumbar interbody fusion (ALIF)
Arthrodesis of C2 level or below:
  posterior (interbody) technique
  posterolateral technique

81.34 Refusion of dorsal and dorsolumbar spine, anterior technique
Arthrodesis of thoracic or thoracolumbar region:
  anterior (interbody) technique
  anterolateral technique

81.35 Refusion of dorsal and dorsolumbar spine, posterior technique
Arthrodesis of thoracic or thoracolumbar region:
  posterior (interbody) technique
  posterolateral technique

81.36 Refusion of lumbar and lumbosacral spine, anterior technique
Arthrodesis of lumbar or lumbosacral region:
  anterior (interbody) technique
  anterolateral technique

81.37 Refusion of lumbar and lumbosacral spine, lateral transverse process technique

81.38 Refusion of lumbar and lumbosacral spine, posterior technique
Arthrodesis of lumbar or lumbosacral region:
  posterior (interbody) technique
  posterolateral technique
  Posterior lumbar interbody fusion (PLIF)
  Transforaminal lumbar interbody fusion (TLIF)

81.39 Refusion of spine, not elsewhere classified

81.4 Other repair of joint of lower extremity
Includes: arthroplasty of lower extremity with:
  external traction or fixation
  graft of bone (chips) or cartilage
  internal fixation device

81.40 Repair of hip, not elsewhere classified

81.42 Five-in-one repair of knee
Medial meniscectomy, medial collateral ligament repair, vastus medialis advancement, semitendinosus advancement, and pes anserinus transfer

81.43 Triad knee repair
Medial meniscectomy with repair of the anterior cruciate ligament and the medial collateral ligament
O'Donoghue procedure
81.44 **Patellar stabilization**
Roux-Goldthwait operation for recurrent dislocation of patella

81.45 **Other repair of the cruciate ligaments**

81.46 **Other repair of the collateral ligaments**

81.47 **Other repair of knee**

81.49 **Other repair of ankle**

81.5 **Joint replacement of lower extremity**

Includes: arthroplasty of lower extremity with:
- external traction or fixation
- graft of bone (chips) or cartilage
- internal fixation device or prosthesis

Note: Removal of prior prosthesis -- omit code

81.51 **Total hip replacement**
Replacement of both femoral head and acetabulum by prosthesis
Total reconstruction of hip
Code also any type of bearing surface, if known (00.74-00.77)

81.52 **Partial hip replacement**
Bipolar endoprosthesis
Code also any type of bearing surface, if known (00.74-00.77)

81.53 **Revision of hip replacement, not otherwise specified**
Revision of hip replacement, not specified as to components(s) replaced, (acetabular, femoral or both)
Code also any:
- removal of (cement)(joint) spacer (84.57)
- type of bearing surface, if known (00.74-00.77)

*Excludes:* revision of hip replacement, components specified (00.70-00.73)

81.54 **Total knee replacement**
Bicompartmental
Tricompartmental
Unicompartmental (hemijoint)
Partial knee replacement

81.55 **Revision of knee replacement, not otherwise specified**
Code also any removal of (cement) spacer (84.57)

*Excludes:* arthrodesis of knee (81.22)
revision of knee replacement, components specified (00.80-00.84)

81.56 **Total ankle replacement**

81.57 **Replacement of joint of foot and toe**

81.59 **Revision of joint replacement of lower extremity, not elsewhere classified**
81.6 Other procedures on spine

Note: Number of vertebrae
The vertebral spine consists of 25 vertebrae in the following order and number:
Cervical: C1 (atlas), C2 (axis), C3, C4, C5, C6, C7
Thoracic or Dorsal: T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12
Lumbar and Sacral: L1, L2, L3, L4, L5, S1

Coders should report only one code from the series 81.62 or 81.63 or 81.64 to show the total number of vertebrae fused on the patient.

Code also the level and approach of the fusion or refusion (81.00-81.08, 81.30-81.39)

81.62 Fusion or refusion of 2-3 vertebrae
81.63 Fusion or refusion of 4-8 vertebrae
81.64 Fusion or refusion of 9 or more vertebrae

81.65 Percutaneous vertebroplasty®
Injection of bone void filler (cement) (polymethylmethacrylate) (PMMA) into the diseased or fractured vertebral body

Excludes: kyphoplasty (81.66) percutaneous vertebral augmentation (81.66)

81.66 Percutaneous vertebral augmentation®
Insertion of inflatable balloon, bone tamp, or other device displacing (removing) (compacting) bone to create a space (cavity) (void) prior to injection of bone void filler (cement)(polymethylmethacrylate) (PMMA) or other substance
Arcuplasty
Kyphoplasty
SKyphoplasty
Spineoplasty

Excludes: percutaneous vertebroplasty (81.65)

81.7 Arthroplasty and repair of hand, fingers and wrist
Includes: arthroplasty of hand and finger with:
- external traction or fixation
- graft of bone (chips) or cartilage
- internal fixation device or prosthesis

Excludes: operations on muscle, tendon and fascia of hand (82.01-82.99)

81.71 Arthroplasty of metacarpophalangeal and interphalangeal joint with implant
81.72 Arthroplasty of metacarpophalangeal and interphalangeal joint without implant
81.73 Total wrist replacement
81.74 Arthroplasty of carpocarpal or carpometacarpal joint with implant
81.75 Arthroplasty of carpocarpal or carpometacarpal joint without implant
81.79 Other repair of hand, fingers and wrist
81.8  **Arthroplasty and repair of shoulder and elbow**

Includes: arthroplasty of upper limb NEC with:
- external traction or fixation
- graft of bone (chips) or cartilage
- internal fixation device or prosthesis

81.80  **Total shoulder replacement**
81.81  **Partial shoulder replacement**
81.82  **Repair of recurrent dislocation of shoulder**
81.83  **Other repair of shoulder**
   - Revision of arthroplasty of shoulder
81.84  **Total elbow replacement**
   - Partial elbow replacement
81.85  **Other repair of elbow**

81.9  **Other operations on joint structures**

81.91  **Arthrocentesis**
   - Joint aspiration

   *Excludes: that for:*
   - arthrography (88.32)
   - biopsy of joint structure (80.30-80.39)
   - injection of drug (81.92)

81.92  **Injection of therapeutic substance into joint or ligament**
81.93  **Suture of capsule or ligament of upper extremity**

   *Excludes: that associated with arthroplasty (81.71-81.75, 81.80-81.81, 81.84)*

81.94  **Suture of capsule or ligament of ankle and foot**

   *Excludes: that associated with arthroplasty (81.56-81.59)*
81.95  **Suture of capsule or ligament of other lower extremity**

   *Excludes: that associated with arthroplasty (81.51-81.55, 81.59)*
81.96  **Other repair of joint**
81.97  **Revision of joint replacement of upper extremity**
   - Partial
   - Removal of cement spacer
   - Total

81.98  **Other diagnostic procedures on joint structures**

   *Excludes: arthroscopy (80.20-80.29)*
   - biopsy of joint structure (80.30-80.39)
   - microscopic examination of specimen from joint (91.51-91.59)
   - thermography (88.83)
   - x-ray (87.21-87.29, 88.21-88.33)

81.99  **Other**
82 Operations on muscle, tendon, and fascia of hand
Includes: operations on:
aponeurosis
synovial membrane (tendon sheath)
tendon sheath

82.0 Incision of muscle, tendon, fascia, and bursa of hand
82.01 Exploration of tendon sheath of hand
Incision of tendon sheath of hand
Removal of rice bodies in tendon sheath of hand

Excludes: division of tendon (82.11)

82.02 Myotomy of hand

Excludes: myotomy for division (82.19)

82.03 Bursotomy of hand

82.04 Incision and drainage of palmar or thenar space

82.09 Other incision of soft tissue of hand

Excludes: incision of skin an subcutaneous tissue alone (86.01-86.09)

82.1 Division of muscle, tendon, and fascia of hand
82.11 Tenotomy of hand
Division of tendon of hand

82.12 Fasciotomy of hand
Division of fascia of hand

82.19 Other division of soft tissue of hand
Division of muscle of hand

82.2 Excision of lesion of muscle, tendon, and fascia of hand
82.21 Excision of lesion of tendon sheath of hand
Ganglionectomy of tendon sheath (wrist)

82.22 Excision of lesion of muscle of hand

82.29 Excision of other lesion of soft tissue of hand

Excludes: excision of lesion of skin and subcutaneous tissue
(86.21-86.3)

82.3 Other excision of soft tissue of hand
Code also any skin graft (86.61-86.62, 86.73)

Excludes: excision of skin and subcutaneous tissue
(86.21-86.3)

82.31 Bursectomy of hand

82.32 Excision of tendon of hand for graft

82.33 Other tenonectomy of hand
Tenosynovectomy of hand

Excludes: excision of lesion of:
tendon (82.29)
sheath (82.21)

82.34 Excision of muscle or fascia of hand for graft
82.35 Other fasciectomy of hand
   Release of Dupuytren's contracture
   Excludes: excision of lesion of fascia (82.29)

82.36 Other myectomy of hand
   Excludes: excision of lesion of muscle (82.22)

82.39 Other excision of soft tissue of hand
   Excludes: excision of skin (86.21-86.3)
   excision of soft tissue lesion (82.29)

82.4 Suture of muscle, tendon, and fascia of hand
   82.41 Suture of tendon sheath of hand
   82.42 Delayed suture of flexor tendon of hand
   82.43 Delayed suture of other tendon of hand
   82.44 Other suture of flexor tendon of hand
   Excludes: delayed suture of flexor tendon of hand (82.42)
   82.45 Other suture of other tendon of hand
   Excludes: delayed suture of other tendon of hand (82.43)

82.46 Suture of muscle or fascia of hand

82.5 Transplantation of muscle and tendon of hand
   82.51 Advancement of tendon of hand
   82.52 Recession of tendon of hand
   82.53 Reattachment of tendon of hand
   82.54 Reattachment of muscle of hand
   82.55 Other change in hand muscle or tendon length
   82.56 Other hand tendon transfer or transplantation
   Excludes: pollicization of thumb (82.61)
   transfer of finger, except thu (82.81)
   82.57 Other hand tendon transposition
   82.58 Other hand muscle transfer or transplantation
   82.59 Other hand muscle transposition

82.6 Reconstruction of thumb
   Includes: digital transfer to act as thumb
   Code also any amputation for digital transfer (84.01, 84.11)
   82.61 Pollicization operation carrying over nerves and blood supply
   82.69 Other reconstruction of thumb
   "Cocked- hat" procedure [skin flap and bone]
   Grafts:
   bone to thumb
   skin (pedicle) to thumb

82.7 Plastic operation on hand with graft or implant
   82.71 Tendon pulley reconstruction
   Reconstruction for opponensplasty
82.72 Plastic operation on hand with graft of muscle or fascia
82.79 Plastic operation on hand with other graft or implant
    Tendon graft to hand

**82.8 Other plastic operations on hand**

82.81 Transfer of finger, except thumb
    *Excludes: pollicization of thumb (82.61)*
82.82 Repair of cleft hand
82.83 Repair of macrodactyly
82.84 Repair of mallet finger
82.85 Other tenodesis of hand
    Tendon fixation of hand NOS
82.86 Other tenoplasty of hand
    Myotenoplasty of hand
82.89 Other plastic operations on hand
    Plication of fascia
    Repair of fascial hernia
    *Excludes: that with graft or implant (82.71-82.79)*

**82.9 Other operations on muscle, tendon, and fascia of hand**

*Excludes: diagnostic procedures on soft tissue of hand (83.21-83.29)*

82.91 Lysis of adhesions of hand
    Freeing of adhesions of fascia, muscle, and tendon of hand
    *Excludes: decompression of carpal tunnel (04.43)
    that by stretching or manipulation only (93.26)*
82.92 Aspiration of bursa of hand
82.93 Aspiration of other soft tissue of hand
    *Excludes: skin and subcutaneous tissue (86.01)*
82.94 Injection of therapeutic substance into bursa of hand
82.95 Injection of therapeutic substance into tendon of hand
82.96 Other injection of locally-acting therapeutic substance into
    soft tissue of hand
    *Excludes: subcutaneous or intramuscular injection (99.11-99.29)*
82.99 Other operations on muscle, tendon, and fascia of hand

**83 Operations on muscle, tendon, fascia, and bursa, except hand**

Includes: operations on:
    aponeurosis
    synovial membrane of bursa and tendon sheaths
    tendon sheaths
*Excludes: diaphragm (34.81-34.89)
    hand (82.01-82.99)
    muscles of eye (15.01-15.9)*

**83.0 Incision of muscle, tendon, fascia, and bursa**
83.01 Exploration of tendon sheath
Incision of tendon sheath
Removal of rice bodies from tendon sheath

83.02 Myotomy
*Excludes: cricopharyngeal myotomy (29.31)*

83.03 Bursotomy
Removal of calcareous deposit of bursa
*Excludes: aspiration of burs (percutaneous) (83.94)*

83.09 Other incision of soft tissue
Incision of fascia
*Excludes: incision of skin an subcutaneous tissue alone (86.01-86.09)*

83.1 Division of muscle, tendon, and fascia

83.11 Achillotenotomy

83.12 Adductor tenotomy of hip

83.13 Other tenotomy
Aponeurotomy
Division of tendon
Tendon release
Tendon transection
Tenotomy for thoracic outlet decompression

83.14 Fasciotomy
Division of fascia
Division of iliotibial band
Fascia stripping
Release of Volkmann's contracture by fasciotomy

83.19 Other division of soft tissue
Division of muscle
Muscle release
Myotomy for thoracic outlet decompression
Myotomy with division
Scalenotomy
Transation of muscle

83.2 Diagnostic procedures on muscle, tendon, fascia, and bursa, including that of hand

83.21 Biopsy of soft tissue
*Excludes: biopsy of chest wall (34.23)
biopsy of skin and subcutaneous tissue (86.11)*

83.29 Other diagnostic procedures on muscle, tendon, fascia, and bursa, including that of hand
*Excludes: microscopic examination of specimen (91.51-91.59)
soft tissue x-ray (87.09, 87.38-87.39, 88.09, 88.35, 88.37)
thermography of muscle (88.84)*
83.3 Excision of lesion of muscle, tendon, fascia, and bursa

*Excludes: biopsy of soft tissue (83.21)*

83.31 Excision of lesion of tendon sheath
Excision of ganglion of tendon sheath, except of hand

83.32 Excision of lesion of muscle
Excision of:
- heterotopic bone
- muscle scar for release of Volkmann's contracture
- myositis ossificans

83.39 Excision of lesion of other soft tissue
Excision of Baker's cyst

*Excludes: bursectomy (83.5)*
- excision of lesion of skin and subcutaneous tissue (86.3)
- synovectomy (80.70-80.79)

83.4 Other excision of muscle, tendon, and fascia

83.41 Excision of tendon for graft
83.42 Other tenonectomy
Excision of:
- aponeurosis
- tendon sheath
- Tenosynovectomy

83.43 Excision of muscle or fascia for graft
83.44 Other fasciectomy
83.45 Other myectomy
Debridement of muscle NOS
- Scalenectomy

83.49 Other excision of soft tissue

83.5 Bursectomy

83.6 Suture of muscle, tendon, and fascia

83.61 Suture of tendon sheath
83.62 Delayed suture of tendon
83.63 Rotator cuff repair
83.64 Other suture of tendon
- Achillorrhaphy
- Aponeurorrhaphy

*Excludes: delayed suture of tendon (83.62)*

83.65 Other suture of muscle or fascia
Repair of diastasis recti

83.7 Reconstruction of muscle and tendon

*Excludes: reconstruction of muscle and tendon associated with arthroplasty*

83.71 Advancement of tendon
83.72 Recession of tendon
83.73 Reattachment of tendon
83.74 Reattachment of muscle
83.75 Tendon transfer or transplantation
83.76 Other tendon transposition
83.77 Muscle transfer or transplantation
    Release of Volkmann's contracture by muscle transplantation
83.79 Other muscle transposition

83.8 Other plastic operations on muscle, tendon, and fascia
    Excludes: plastic operations on muscle, tendon, and fascia associated with arthroplasty

83.81 Tendon graft
83.82 Graft of muscle or fascia
83.83 Tendon pulley reconstruction
83.84 Release of clubfoot, not elsewhere classified
    Evans operation on clubfoot
83.85 Other change in muscle or tendon length
    Hamstring lengthening
    Heel cord shortening
    Plastic achillotenotomy
    Tendon plication

83.86 Quadricepsplasty

83.87 Other plastic operations on muscle
    Musculoplasty
    Myoplasty

83.88 Other plastic operations on tendon
    Myotenoplasty
    Tendon fixation
    Tenodesis
    Tenoplasty

83.89 Other plastic operations on fascia
    Fascia lengthening
    Fascioplasty
    Plication of fascia

83.9 Other operations on muscle, tendon, fascia, and bursa
    Excludes: nonoperative:
        manipulation (93.25-93.29)
        stretching (93.27-93.29)

83.91 Lysis of adhesions of muscle, tendon, fascia, and bursa
    Excludes: that for tarsal tunnel syndrome (04.44)

83.92 Insertion or replacement of skeletal muscle stimulator
    Implantation, insertion, placement, or replacement of skeletal muscle:
        electrodes
        stimulator

83.93 Removal of skeletal muscle stimulator
83.94 Aspiration of bursa
83.95 Aspiration of other soft tissue
   \textit{Excludes: that of skin and subcutaneous tissue (86.01)}
83.96 Injection of therapeutic substance into bursa
83.97 Injection of therapeutic substance into tendon
83.98 Injection of locally-acting therapeutic substance into other soft tissue
   \textit{Excludes: subcutaneous or intramuscular injection (99.11-99.29)}
83.99 Other operations on muscle, tendon, fascia, and bursa
   Suture of bursa

84 Other procedures on musculoskeletal system

84.0 Amputation of upper limb
   \textit{Excludes: revision of amputation stump (84.3)}
84.00 Upper limb amputation, not otherwise specified
   Closed flap amputation of upper limb NOS
   Kineplastic amputation of upper limb NOS
   Open or guillotine amputation of upper limb NOS
   Revision of current traumatic amputation of upper limb NOS
84.01 Amputation and disarticulation of finger
   \textit{Excludes: ligation of supernumerary finger (86.26)}
84.02 Amputation and disarticulation of thumb
84.03 Amputation through hand
   Amputation through carpals
84.04 Disarticulation of wrist
84.05 Amputation through forearm
   Forearm amputation
84.06 Disarticulation of elbow
84.07 Amputation through humerus
   Upper arm amputation
84.08 Disarticulation of shoulder
84.09 Interthoracoscapular amputation
   Forequarter amputation

84.1 Amputation of lower limb
   \textit{Excludes: revision of amputation stump (84.3)}
84.10 Lower limb amputation, not otherwise specified
   Closed flap amputation of lower limb NOS
   Kineplastic amputation of lower limb NOS
   Open or guillotine amputation of lower limb NOS
   Revision of current traumatic amputation of lower limb NOS
84.11 Amputation of toe
Amputation through metatarsophalangeal joint
Disarticulation of toe
Metatarsal head amputation
Ray amputation of foot (disarticulation of the metatarsal head of the toe extending across the forefoot just proximal to the metatarsophalangeal crease)

Excludes: ligation of supernumerary toe (86.26)

84.12 Amputation through foot
Amputation of forefoot
Amputation through middle of foot
Chopart's amputation
Midtarsal amputation
Transmetatarsal amputation (amputation of the forefoot, including all the toes)

Excludes: Ray amputation of foot (84.11)

84.13 Disarticulation of ankle

84.14 Amputation of ankle through malleoli of tibia and fibula

84.15 Other amputation below knee
Amputation of leg through tibia and fibula NOS

84.16 Disarticulation of knee
Batch, Spitler, and McFaddin amputation
Mazet amputation
S.P. Roger's amputation

84.17 Amputation above knee
Amputation of leg through femur
Amputation of thigh
Conversion of below-knee amputation into above-knee amputation
Supracondylar above-knee amputation

84.18 Disarticulation of hip

84.19 Abdominopelvic amputation
Hemipelvectomy
Hindquarter amputation

84.2 Reattachment of extremity

84.21 Thumb reattachment
84.22 Finger reattachment
84.23 Forearm, wrist, or hand reattachment
84.24 Upper arm reattachment
Reattachment of arm NOS

84.25 Toe reattachment
84.26 Foot reattachment
84.27 Lower leg or ankle reattachment
Reattachment of leg NOS

84.28 Thigh reattachment
84.29 Other reattachment
84.3 Revision of amputation stump
Reamputation of stump
Secondary closure of stump
Trimming of stump

Excludes: revision of current traumatic amputation [revision by further amputation of current injury] (84.00-84.19, 84.91)

84.4 Implantation or fitting of prosthetic limb device
84.40 Implantation or fitting of prosthetic limb device, not otherwise specified
84.41 Fitting of prosthesis of upper arm and shoulder
84.42 Fitting of prosthesis of lower arm and hand
84.43 Fitting of prosthesis of arm, not otherwise specified
84.44 Implantation of prosthetic device of arm
84.45 Fitting of prosthesis above knee
84.46 Fitting of prosthesis below knee
84.47 Fitting of prosthesis of leg, not otherwise specified
84.48 Implantation of prosthetic device of leg

84.5 Implantation of other musculoskeletal devices and substances
Excludes: insertion of (non-fusion) spinal disc replacement device (84.60 - 84.69)

84.51 Insertion of interbody spinal fusion device
Insertion of:cages (carbon, ceramic, metal, plastic or titanium)
interbody fusion cage
synthetic cages or spacers
threaded bone dowels
Code also refusion of spine (81.30 - 81.39)
Code also spinal fusion (81.00 - 81.08)

84.52 Insertion of recombinant bone morphogenetic protein rhBMP
That via collagen sponge, coral, ceramic and other carriers
Code also primary procedure performed:
fracture repair (79.00-79.99)
spinal fusion (81.00 - 81.08)
spinal refusion (81.30 - 81.39)

84.53 Implantation of internal limb lengthening device with kinetic distraction
Code also limb lengthening procedure (78.30 - 78.39)

84.54 Implantation of other internal limb lengthening device
Implantation of internal limb lengthening device, Not Otherwise Specified (NOS)
Code also limb lengthening procedure (78.30 - 78.39)
84.55 Insertion of bone void filler
   Insertion of:
   - acrylic cement (PMMA)
   - bone void cement
   - calcium based bone void filler
   - polymethylmethacrylate (PMMA)

   Excludes: that with percutaneous vertebral augmentation (81.66) that with percutaneous vertebroplasty (81.65)

84.56 Insertion or replacement of (cement) spacer
   Insertion or replacement of joint (methylmethacrylate) spacer

84.57 Removal of (cement) spacer
   Removal of joint (methylmethacrylate) spacer

84.59 Insertion of other spinal devices
   Excludes: initial insertion of pedicle screws with spinal fusion -- omit code

   insertion of facet replacement device(s) (84.84)
   insertion of interspinous process device(s) (84.80)
   insertion of pedicle-based dynamic stabilization device(s) (84.82)

*Delete code 84.58

84.6 Replacement of spinal disc
   Includes: non-fusion arthroplasty of the spine with insertion of artificial disc prosthesis

84.60 Insertion of spinal disc prosthesis, not otherwise specified
   Replacement of spinal disc, NOS
   Includes: diskectomy (discectomy)

84.61 Insertion of partial spinal disc prosthesis, cervical
   Nuclear replacement device, cervical
   Partial artificial disc prosthesis (flexible), cervical
   Replacement of nuclear disc (nucleus pulposus), cervical
   Includes: diskectomy (discectomy)

84.62 Insertion of total spinal disc prosthesis, cervical
   Replacement of cervical spinal disc, NOS
   Replacement of total spinal disc, cervical
   Total artificial disc prosthesis (flexible), cervical
   Includes: diskectomy (discectomy)

84.63 Insertion of spinal disc prosthesis, thoracic
   Artificial disc prosthesis (flexible), thoracic
   Replacement of thoracic spinal disc, partial or total
   Includes: diskectomy (discectomy)

84.64 Insertion of partial spinal disc prosthesis, lumbosacral
   Nuclear replacement device, lumbar
   Partial artificial disc prosthesis (flexible), lumbar
   Replacement of nuclear disc (nucleus pulposus), lumbar
   Includes: diskectomy (discectomy)
84.65 Insertion of total spinal disc prosthesis, lumbosacral
   Replacement of lumbar spinal disc, NOS
   Replacement of total spinal disc, lumbar
   Total artificial disc prosthesis (flexible), lumbar
   Includes: diskectomy (discectomy)

84.66 Revision or replacement of artificial spinal disc prosthesis, cervical
   Removal of (partial) (total) spinal disc prosthesis with synchronous
   insertion of new (partial) (total) spinal disc prosthesis, cervical
   Repair of previously inserted spinal disc prosthesis, cervical

84.67 Revision or replacement of artificial spinal disc prosthesis, thoracic
   Removal of (partial) (total) spinal disc prosthesis with synchronous
   insertion of new (partial) (total) spinal disc prosthesis, thoracic
   Repair of previously inserted spinal disc prosthesis, thoracic

84.68 Revision or replacement of artificial spinal disc prosthesis, lumbosacral
   Removal of (partial) (total) spinal disc prosthesis with synchronous
   insertion of new (partial)(total) spinal disc prosthesis, lumbosacral
   Repair of previously inserted spinal disc prosthesis, lumbosacral

84.69 Revision or replacement of artificial spinal disc prosthesis, not otherwise specified
   Removal of (partial) (total) spinal disc prosthesis with synchronous
   insertion of new (partial)(total) spinal disc prosthesis
   Repair of previously inserted spinal disc prosthesis

84.7 Adjunct codes for external fixator devices
   Code also any primary procedure performed:
   application of external fixator device (78.10, 78.12-78.13, 78.15, 78.17-78.19)
   reduction of fracture and dislocation (79.00-79.89)

84.71 Application of external fixator device, monoplanar system
   Excludes: other hybrid device or system (84.73)
   ring device or system (84.72)

84.72 Application of external fixator device, ring system
   Ilizarov type
   Sheffield type
   Excludes: monoplanar device or system (84.71)
   other hybrid device or system (84.73)

84.73 Application of hybrid external fixator device
   Computer (assisted) (dependent) external fixator device
   Hybrid system using both ring and monoplanar devices
   Excludes: monoplanar device or system, when used alone (84.71)
   ring device or system, when used alone (84.72)
84.8 Insertion, replacement and revision of posterior spinal motion preservation device(s)
Dynamic spinal stabilization device(s)
Includes any synchronous facetectomy (partial, total) performed at the same level
Code also any synchronous surgical decompression (foraminotomy, laminectomy, laminotomy), if performed (03.09)
Excludes: fusion of spine (81.00–81.08, 81.30–81.39)
insertion of artificial disc prosthesis (84.60–84.69)
insertion of interbody spinal fusion device (84.51)

84.80 Insertion or replacement of interspinous process device(s)
Interspinous process decompression device(s)
Interspinous process distraction device(s)
Excludes: insertion or replacement of facet replacement device (84.84)
insertion or replacement of pedicle-based dynamic stabilization device (84.82)

84.81 Revision of interspinous process device(s)
Repair of previously inserted interspinous process device(s)
Excludes: revision of facet replacement device(s) (84.85)
revision of pedicle-based dynamic stabilization device (84.83)

84.82 Insertion or replacement of pedicle-based dynamic stabilization device(s)
Excludes: initial insertion of pedicle screws with spinal fusion--omit code
insertion or replacement of facet replacement device(s) (84.84)
insertion or replacement of interspinous process device(s) (84.80)
replacement of pedicle screws used in spinal fusion (78.59)

84.83 Revision of pedicle-based dynamic stabilization device(s)
Repair of previously inserted pedicle-based dynamic stabilization device(s)
Excludes: removal of pedicle screws used in spinal fusion (78.69)
replacement of pedicle screws used in spinal fusion (78.59)
revision of facet replacement device(s) (84.85)
revision of interspinous process device(s) (84.81)

84.84 Insertion or replacement of facet replacement device(s)
Facet arthroplasty
Excludes: initial insertion of pedicle screws with spinal fusion--omit code
insertion or replacement of interspinous process device(s) (84.80)
insertion or replacement of pedicle-based dynamic stabilization device(s) (84.82)
replacement of pedicle screws used in spinal fusion (78.59)
84.85 Revision of facet replacement device(s)  
Repair of previously inserted facet replacement device(s)  
*Excludes:* removal of pedicle screws used in spinal fusion (78.69)  
replacement of pedicle screws used in spinal fusion (78.59)  
revision of interspinous process device(s) (84.81)  
revision of pedicle-based dynamic stabilization device(s) (84.83)

84.9 Other operations on musculoskeletal system  
*Excludes:* nonoperative manipulation (93.25-93.29)

84.91 Amputation, not otherwise specified
84.92 Separation of equal conjoined twins
84.93 Separation of unequal conjoined twins  
Separation of conjoined twins NOS
84.99 Other
85 Operations on the breast

Includes: operations on the skin and subcutaneous tissue of:
- breast female or male
- previous mastectomy site female or male
- revision of previous mastectomy site

85.0 Mastotomy
- Incision of breast (skin)
- Mammatomy

_Excludes:_ aspiration of breast (85.91)
_removal of implant (85.94)

85.1 Diagnostic procedures on breast

85.11 Closed [percutaneous] [needle] biopsy of breast
85.12 Open biopsy of breast
85.19 Other diagnostic procedures on breast

_Excludes:_ mammary ductogram (87.35)
mammography NEC (87.37)
manual examination (89.36)
microscopic examination of specimen (91.61-91.69)
thermography (88.85)
ultrasonography (88.73)
xerography (87.36)

85.2 Excision or destruction of breast tissue

_Excludes:_ mastectomy (85.41-85.48)
_reduction mammoplasty (85.31-85.32)

85.20 Excision or destruction of breast tissue, not otherwise specified

_Excludes:_ laser interstitial thermal therapy [LITT] of lesion or tissue of breast under guidance (17.69)

85.21 Local excision of lesion of breast
- Lumpectomy
- Removal of area of fibrosis from breast

_Excludes:_ biopsy of breast (85.11-85.12)

85.22 Resection of quadrant of breast
85.23 Subtotal mastectomy

_Excludes:_ quadrant resection (85.22)

85.24 Excision of ectopic breast tissue
- Excision of accessory nipple

85.25 Excision of nipple

_Excludes:_ excision of accessory nipple (85.24)
85.3 Reduction mammoplasty and subcutaneous mammectomy

85.31 Unilateral reduction mammoplasty
Unilateral:
- amputative mammoplasty
- size reduction mammoplasty

85.32 Bilateral reduction mammoplasty
Amputative mammoplasty
Reduction mammoplasty (for gynecomastia)

85.33 Unilateral subcutaneous mammectomy with synchronous implant
Excludes: that without synchronous implant (85.34)

85.34 Other unilateral subcutaneous mammectomy
- Removal of breast tissue with preservation of skin and nipple
- Subcutaneous mammectomy NOS

85.35 Bilateral subcutaneous mammectomy with synchronous implant
Excludes: that without synchronous implant (85.36)

85.36 Other bilateral subcutaneous mammectomy

85.4 Mastectomy

85.41 Unilateral simple mastectomy
Mastectomy:
- NOS
- complete

85.42 Bilateral simple mastectomy
Bilateral complete mastectomy

85.43 Unilateral extended simple mastectomy
Extended simple mastectomy NOS
Modified radical mastectomy
Simple mastectomy with excision of regional lymph nodes

85.44 Bilateral extended simple mastectomy

85.45 Unilateral radical mastectomy
Excision of breast, pectoral muscles, and regional lymph nodes
[axillary, clavicular, supraclavicular]
Radical mastectomy NOS

85.46 Bilateral radical mastectomy

85.47 Unilateral extended radical mastectomy
Excision of breast, muscles, and lymph nodes [axillary, clavicular, supraclavicular, internal mammary, and mediastinal]
Extended radical mastectomy NOS

85.48 Bilateral extended radical mastectomy

85.5 Augmentation mammoplasty
Excludes: that associated with subcutaneous mammectomy (85.33, 85.35)

85.50 Augmentation mammoplasty, not otherwise specified

85.51 Unilateral injection into breast for augmentation

85.52 Bilateral injection into breast for augmentation
Injection into breast for augmentation NOS
85.53 Unilateral breast implant
85.54 Bilateral breast implant
Breast implant NOS

85.6 Mastopexy

85.7 Total reconstruction of breast ®

85.70 Total reconstruction of breast, not otherwise specified ☑
Perforator flap, free

85.71 Latissimus dorsi myocutaneous flap ☑

85.72 Transverse rectus abdominis myocutaneous (TRAM) flap, pedicled ☑
Excludes: transverse rectus abdominis myocutaneous (TRAM) flap, free (85.73)

85.73 Transverse rectus abdominis myocutaneous (TRAM) flap, free ☑
Excludes: transverse rectus abdominis myocutaneous (TRAM) flap, pedicled (85.72)

85.74 Deep inferior epigastric artery perforator (DIEP) flap, free ☑

85.75 Superficial inferior epigastric artery (SIEA) flap, free ☑

85.76 Gluteal artery perforator (GAP) flap, free ☑

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:
augmentation (85.50-85.54)
reconstruction (85.70-85.76, 85.79)
reduction (85.31-85.32)

85.81 Suture of laceration of breast
85.82 Split-thickness graft to breast
85.83 Full-thickness graft to breast
85.84 Pedicle graft to breast
85.85 Muscle flap graft to breast
85.86 Transposition of nipple
85.87 Other repair or reconstruction of nipple
85.89 Other mammoplasty

☑ New code ☑ Revised code ☐ 4th digit required
85.9 Other operations on the breast

85.91 Aspiration of breast

*Excludes:* percutaneous biopsy of breast (85.11)

85.92 Injection of therapeutic agent into breast

*Excludes:* that for augmentation of breast (85.51-85.52)

85.93 Revision of implant of breast

85.94 Removal of implant of breast

85.95 Insertion of breast tissue expander

Insertion (soft tissue) of tissue expander (one or more) under muscle or platysma to develop skin flaps for donor use

85.96 Removal of breast tissue expander

85.99 Other

86 Operations on skin and subcutaneous tissue

Includes: operations on:
- hair follicles
- male perineum
- nails
- sebaceous glands
- subcutaneous fat pads
- sudoriferous glands
- superficial fossae

*Excludes:* those on skin of:
- anus (49.01-49.99)
- breast (mastectomy site) (85.0-85.99)
- ear (18.01-18.9)
- eyebrow (08.01-08.99)
- eyelid (08.01-08.99)
- female perineum (71.01-71.9)
- lips (27.0-27.99)
- nose (21.00-21.99)
- penis (64.0-64.99)
- scrotum (61.0-61.99)
- vulva (71.01-71.9)

86.0 Incision of skin and subcutaneous tissue

86.01 Aspiration of skin and subcutaneous tissue

Aspiration of:
- abscess of nail, skin, or subcutaneous tissue
- hematoma of nail, skin, or subcutaneous tissue
- seroma of nail, skin, or subcutaneous tissue

86.02 Injection or tattooing of skin lesion or defect

Injection of filling material
Insertion of filling material
Pigmenting of skin of filling material

86.03 Incision of pilonidal sinus or cyst

*Excludes:* marsupialization (86.21)
86.04 Other incision with drainage of skin and subcutaneous tissue

Excludes: drainage of:
- fascial compartments of face and mouth (27.0)
- palmar or thenar space (82.04)
- pilonidal sinus or cyst (86.03)

86.05 Incision with removal of foreign body or device from skin and subcutaneous tissue

Removal of loop recorder
Removal of neurostimulator pulse generator (single array, dual array)
Removal of tissue expander(s) from skin or soft tissue other than breast tissue
Removal of carotid sinus baroreflex activation device

Excludes: removal of foreign body without incision (98.20-98.29)

86.06 Insertion of totally implantable infusion pump

Code also any associated catheterization

Excludes: insertion of totally implantable vascular access device (86.07)

86.07 Insertion of totally implantable vascular access device [VAD]

Totally implanted port

Excludes: insertion of totally implantable infusion pump (86.06)

86.09 Other incision of skin and subcutaneous tissue

Creation of thalamic stimulator pulse generator pocket, new site
Escharotomy
Exploration:
- sinus tract, skin
- superficial fossa
Relocation of subcutaneous device pocket NEC
Reopening subcutaneous pocket for device revision without replacement
Undercutting of hair follicle

Excludes: creation of loop recorder pocket, new site and insertion/relocation of device (37.79)
creation of pocket for implantable, patient-activated cardiac event recorder and insertion/relocation of device (37.79)
removal of catheter from cranial cavity (01.27)
that of:
- cardiac pacemaker pocket, new site (37.79)
- fascial compartments of face and mouth (27.0)
that for drainage (86.04)

86.1 Diagnostic procedures on skin and subcutaneous tissue

86.11 Biopsy of skin and subcutaneous tissue

86.19 Other diagnostic procedures on skin and subcutaneous tissue

Excludes: microscopic examination of specimen from skin and subcutaneous tissue (91.61-91.79)
86.2 Excision or destruction of lesion or tissue of skin and subcutaneous tissue

86.21 Excision of pilonidal cyst or sinus
Marsupialization of cyst

Excludes: incision of pilonidal cyst or sinus (86.03)

86.22 Excisional debridement of wound, infection, or burn
Removal by excision of:
  - devitalized tissue
  - necrosis
  - slough

Excludes: debridement of:
  - abdominal wall (wound) (54.3)
  - bone (77.60-77.69)
  - muscle (83.45)
    - of hand (82.36)
  - nail (bed) (fold) (86.27)
  - nonexcisional debridement of wound, infection, or burn (86.28)
    - open fracture site (79.60-79.69)
    - pedicle or flap graft (86.75)

86.23 Removal of nail, nail bed, or nail fold

86.24 Chemosurgery of skin
   Chemical peel of skin

86.25 Dermabrasion
   That with laser

Excludes: dermabrasion of wound to remove embedded debris (86.28)

86.26 Ligation of dermal appendage
Excludes: excision of preauricula appendage (18.29)

86.27 Debridement of nail, nail bed, or nail fold
Removal of:
  - necrosis
  - slough

Excludes: removal of nail, nail bed, or nail fold (86.23)

86.28 Nonexcisional debridement of wound, infection or burn
Debridement NOS
Maggot therapy
Removal of devitalized tissue, necrosis and slough by such methods as:
  - brushing
  - irrigation (under pressure)
  - scrubbing
  - washing
  - Water scalpel (jet)
**86.3 Other local excision or destruction of lesion or tissue of skin and subcutaneous tissue**
Destruction of skin by:
- cauterization
- cryosurgery
- fulguration
- laser beam
That with Z-plasty

*Excludes:*
- adipectomy (86.83)
- biopsy of skin (86.11)
- wide or radical excision of skin (86.4)
- Z-plasty without excision (86.84)

**86.4 Radical excision of skin lesion**
Wide excision of skin lesion involving underlying or adjacent structure
Code also any lymph node dissection (40.3–40.5)

**86.5 Suture or other closure of skin and subcutaneous tissue**

- **86.51 Replantation of scalp**

- **86.59 Closure of skin and subcutaneous tissue of other sites**
  - Adhesives (surgical) (tissue)
  - Staples
  - Sutures

  *Excludes:*
  - application of adhesive strips (butterfly) --omit code

**86.6 Free skin graft**
Includes: excision of skin for autogenous graft

*Excludes:*
- construction or reconstruction of:
  - penis (64.43–64.44)
  - trachea (31.75)
  - vagina (70.61–70.64)

- **86.60 Free skin graft, not otherwise specified**
- **86.61 Full-thickness skin graft to hand**

  *Excludes:*
  - heterograft (86.65)
  - homograft (86.66)

- **86.62 Other skin graft to hand**

  *Excludes:*
  - heterograft (86.65)
  - homograft (86.66)

- **86.63 Full-thickness skin graft to other sites**

  *Excludes:*
  - heterograft (86.65)
  - homograft (86.66)

- **86.64 Hair transplant**

  *Excludes:*
  - hair follicle transplant to eyebrow or eyelash (08.63)

- **86.65 Heterograft to skin**
  - Pigskin graft
  - Porcine graft

  *Excludes:*
  - application of dressing only (93.57)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>86.66</td>
<td><strong>Homograft to skin</strong>&lt;br&gt;Graft to skin of:&lt;br&gt;- amniotic membrane from donor skin from donor</td>
</tr>
<tr>
<td>86.67</td>
<td><strong>Dermal regenerative graft</strong>&lt;br&gt;Artificial skin, NOS&lt;br&gt;Creation of &quot;neodermis&quot;&lt;br&gt;Decellularized allodermis&lt;br&gt;Integumentary matrix implants&lt;br&gt;Prosthetic implant of dermal layer of skin&lt;br&gt;Regenerate dermal layer of skin&lt;br&gt;&lt;i&gt;Excludes:&lt;/i&gt; heterograft to skin (86.65)&lt;br&gt;homograft to skin (86.66)</td>
</tr>
<tr>
<td>86.69</td>
<td><strong>Other skin graft to other sites</strong>&lt;br&gt;&lt;i&gt;Excludes:&lt;/i&gt; heterograft (86.65)&lt;br&gt;homograft (86.66)</td>
</tr>
<tr>
<td>86.7</td>
<td><strong>Pedicle grafts or flaps</strong>&lt;br&gt;&lt;i&gt;Excludes:&lt;/i&gt; construction or reconstruction of:&lt;br&gt;- penis (64.43-64.44)&lt;br&gt;- trachea (31.75)&lt;br&gt;- vagina (70.61-70.64)</td>
</tr>
<tr>
<td>86.70</td>
<td><strong>Pedicle or flap graft, not otherwise specified</strong></td>
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<tr>
<td>86.71</td>
<td><strong>Cutting and preparation of pedicle grafts or flaps</strong>&lt;br&gt;Elevation of pedicle from its bed&lt;br&gt;Flap design and raising&lt;br&gt;Partial cutting of pedicle or tube&lt;br&gt;Pedicle delay&lt;br&gt;&lt;i&gt;Excludes:&lt;/i&gt; pollicization or digital transfer (82.61, 82.81)&lt;br&gt;revision of pedicle (86.75)</td>
</tr>
<tr>
<td>86.72</td>
<td><strong>Advancement of pedicle graft</strong></td>
</tr>
<tr>
<td>86.73</td>
<td><strong>Attachment of pedicle or flap graft to hand</strong>&lt;br&gt;&lt;i&gt;Excludes:&lt;/i&gt; pollicization or digital transfer (82.61, 82.81)</td>
</tr>
<tr>
<td>86.74</td>
<td><strong>Attachment of pedicle or flap graft to other sites</strong>&lt;br&gt;Attachment by:&lt;br&gt;- advanced flap&lt;br&gt;- double pedicled flap&lt;br&gt;- pedicle graft&lt;br&gt;- rotating flap&lt;br&gt;- sliding flap&lt;br&gt;- tube graft</td>
</tr>
<tr>
<td>86.75</td>
<td><strong>Revision of pedicle or flap graft</strong>&lt;br&gt;Debridement of pedicle or flap graft&lt;br&gt;Defatting of pedicle or flap graft</td>
</tr>
<tr>
<td>86.8</td>
<td><strong>Other repair and reconstruction of skin and subcutaneous tissue</strong></td>
</tr>
<tr>
<td>86.81</td>
<td><strong>Repair for facial weakness</strong></td>
</tr>
</tbody>
</table>
86.82 Facial rhytidectomy
   Face lift
   Excludes: rhytidectomy of eyelid (80.86-80.87)

86.83 Size reduction plastic operation
   Liposuction
   Reduction of adipose tissue of:
   - abdominal wall (pendulous)
   - arms (batwing)
   - buttock
   - thighs (trochanteric lipomatosis)
   Excludes: breast (85.31-85.32)

86.84 Relaxation of scar or web contracture of skin
   Z-plasty of skin
   Excludes: Z-plasty with excision of lesion (86.3)

86.85 Correction of syndactyly

86.86 Onychoplasty

86.89 Other repair and reconstruction of skin and subcutaneous tissue
   Excludes: mentoplasty (76.67-76.68)

86.9 Other operations on skin and subcutaneous tissue

86.91 Excision of skin for graft
   Excision of skin with closure of donor site
   Excludes: that with graft at same operative episode (86.60-86.69)

86.92 Electrolysis and other epilation of skin
   Excludes: epilation of eyelid (08.91-08.93)

86.93 Insertion of tissue expander
   Insertion (subcutaneous) (soft tissue) of expander(one or more) in scalp (subgaleal space), face, neck, trunk except breast, and upper and lower extremities for development of skin flaps for donor use
   Excludes: flap graft preparation (86.71)
   tissue expander, breast (85.95)

86.94 Insertion or replacement of single array neurostimulator pulse generator, not specified as rechargeable
   Pulse generator (single array, single channel) for intracranial, spinal, and peripheral neurostimulator
   Code also any associated lead implantation (02.93,03.93,04.92)
   Excludes: insertion or replacement of single array rechargeable neurostimulator pulse generator (86.97)

86.95 Insertion or replacement of dual array neurostimulator pulse generator, not specified as rechargeable
   Pulse generator (dual array, dual channel) for intracranial, spinal, and peripheral neurostimulator
   Code also any associated lead implantation (02.93,03.93,04.92)
   Excludes: insertion or replacement of dual array rechargeable neurostimulator pulse generator (86.98)
86.96 Insertion or replacement of other neurostimulator pulse generator
Code also any associated lead implantation (02.93, 03.93, 04.92)
Excludes: insertion of dual array neurostimulator pulse generator
(86.95, 86.98)
insertion of single array neurostimulator pulse generator
(86.94, 86.97)

86.97 Insertion or replacement of single array rechargeable neurostimulator pulse generator
Rechargeable pulse generator (single array, single channel) for intracranial, spinal, and peripheral neurostimulator
Code also any associated lead implantation (02.93, 03.93, 04.92)

86.98 Insertion or replacement of dual array rechargeable neurostimulator pulse generator
Rechargeable pulse generator (dual array, dual channel) for intracranial, spinal, and peripheral neurostimulator
Code also any associated lead implantation (02.93, 03.93, 04.92)

86.99 Other
Excludes: removal of sutures from:
abdomen (97.83)
head and neck (97.38)
thorax (97.43)
trunk NEC (97.84)
wound catheter:
irrigation (96.58)
replacement (97.15)
16. MISCELLANEOUS DIAGNOSTIC AND THERAPEUTIC PROCEDURES (87-99)

87  Diagnostic Radiology

87.0  Soft tissue x-ray of face, head, and neck

Excludes: angiography (88.40-88.68)

87.01 Pneumoencephalogram
87.02 Other contrast radiogram of brain and skull
   Pneumocisternogram
   Pneumoventriculogram
   Posterior fossa myelogram
87.03 Computerized axial tomography of head
   C.A.T. scan of head
87.04 Other tomography of head
87.05 Contrast dacryocystogram
87.06 Contrast radiogram of nasopharynx
87.07 Contrast laryngogram
87.08 Cervical lymphangiogram
87.09 Other soft tissue x-ray of face, head, and neck
   Noncontrast x-ray of:
   adenoid
   larynx
   nasolacrimal duct
   nasopharynx
   salivary gland
   thyroid region
   uvula

Excludes: x-ray study of eye (95.14)

87.1  Other x-ray of face, head, and neck

Excludes: angiography (88.40-88.68)

87.11 Full-mouth x-ray of teeth
87.12 Other dental x-ray
   Orthodontic cephalogram or cephalometrics
   Panorex examination of mandible
   Root canal x-ray
87.13 Temporomandibular contrast arthrogram
87.14 Contrast radiogram of orbit
87.15 Contrast radiogram of sinus
87.16 Other x-ray of facial bones
   X-ray of:
   frontal area
   mandible
   maxilla
   nasal sinuses
nose
orbit
supraorbital area
symphysis menti
zygomaticomaxillary complex

87.17 Other x-ray of skull
Lateral projection of skull
Sagittal projection
Tangential projection

87.2 X-ray of spine
87.21 Contrast myelogram
87.22 Other x-ray of cervical spine
87.23 Other x-ray of thoracic spine
87.24 Other x-ray of lumbosacral spine
  Sacrococcygeal x-ray
87.29 Other x-ray of spine
  Spinal x-ray NOS

87.3 Soft tissue x-ray of thorax
Excludes: angiocardiography (88.50-88.58)
  angiography (88.40-88.68)
87.31 Endotracheal bronchogram
87.32 Other contrast bronchogram
  Transcricoid bronchogram
87.33 Mediastinal pneumogram
87.34 Intrathoracic lymphangiogram
87.35 Contrast radiogram of mammary ducts
87.36 Xerography of breast
87.37 Other mammography
87.38 Sinogram of chest wall
  Fistulogram of chest wall
87.39 Other soft tissue x-ray of chest wall

87.4 Other x-ray of thorax
Excludes: angiocardiography (88.50-88.58)
  angiography (88.40-88.68)
87.41 Computerized axial tomography of thorax ®
  C.A.T. scan of thorax
  C.A.T. scan of heart
  Crystal linea scan of x-ray beam of thorax
  Electronic subraction of thorax
  Photoelectric response of thorax
  Tomography with use of computer, x-rays, and camera of thorax
87.42 Other tomography of thorax ®
  Cardiac tomogram
Excludes: C.A.T. scan of heart (87.41)
87.43 X-ray of ribs, sternum, and clavicle
Examination for:
cervical rib fracture

87.44 Routine chest x-ray, so described
X-ray of chest NOS

87.49 Other chest x-ray
X-ray of:
bronchus NOS
diaphragm NOS
heart NOS
lung NOS
mediastinum NOS
trachea NOS

87.5 Biliary tract x-ray
87.51 Percutaneous hepatic cholangiogram
87.52 Intravenous cholangiogram
87.53 Intraoperative cholangiogram
87.54 Other cholangiogram
87.59 Other biliary tract x-ray
Cholecystogram

87.6 Other x-ray of digestive system
87.61 Barium swallow
87.62 Upper GI series
87.63 Small bowel series
87.64 Lower GI series
87.65 Other x-ray of intestine
87.66 Contrast pancreatogram
87.69 Other digestive tract x-ray

87.7 X-ray of urinary system
Excludes: angioigraphy of renal vessels (88.45, 88.65)
87.71 Computerized axial tomography of kidney
C.A.T. scan of kidney
87.72 Other nephrotomogram
87.73 Intravenous pyelogram
Diuretic infusion pyelogram
87.74 Retrograde pyelogram
87.75 Percutaneous pyelogram
87.76 Retrograde cystourethrogram
87.77 Other cystogram
87.78 Ileal conduitogram
87.79 Other x-ray of the urinary system
   KUB x-ray

87.8  X-ray of female genital organs
   87.81 X-ray of gravid uterus
      Intrauterine cephalometry by x-ray
   87.82 Gas contrast hysterosalpingogram
   87.83 Opaque dye contrast hysterosalpingogram
   87.84 Percutaneous hysteroagram
   87.85 Other x-ray of fallopian tubes and uterus
   87.89 Other x-ray of female genital organs

87.9  X-ray of male genital organs
   87.91 Contrast seminal vesiculogram
   87.92 Other x-ray of prostate and seminal vesicles
   87.93 Contrast epididymogram
   87.94 Contrast vasogram
   87.95 Other x-ray of epididymis and vas deferens
   87.99 Other x-ray of male genital organs

88  Other diagnostic radiology and related techniques

88.0  Soft tissue x-ray of abdomen
   Excludes: angiography (88.40-88.68)
   88.01 Computerized axial tomography of abdomen
      C.A.T. scan of abdomen
      Excludes: C.A.T. scan of kidney (87.71)
   88.02 Other abdomen tomography
      Excludes: nephrotomogram (87.72)
   88.03 Sinogram of abdominal wall
      Fistulogram of abdominal wall
   88.04 Abdominal lymphangiogram
   88.09 Other soft tissue x-ray of abdominal wall

88.1  Other x-ray of abdomen
   88.11 Pelvic opaque dye contrast radiography
   88.12 Pelvic gas contrast radiography
      Pelvic pneumoperitoneum
   88.13 Other peritoneal pneumogram
   88.14 Retroperitoneal fistulogram
   88.15 Retroperitoneal pneumogram
   88.16 Other retroperitoneal x-ray
   88.19 Other x-ray of abdomen
      Flat plate of abdomen
88.2 Skeletal x-ray of extremities and pelvis

*Excludes*: contrast radiogram of joint (88.32)

88.21 Skeletal x-ray of shoulder and upper arm
88.22 Skeletal x-ray of elbow and forearm
88.23 Skeletal x-ray of wrist and hand
88.24 Skeletal x-ray of upper limb, not otherwise specified
88.25 Pelvimetry
88.26 Other skeletal x-ray of pelvis and hip
88.27 Skeletal x-ray of thigh, knee, and lower leg
88.28 Skeletal x-ray of ankle and foot
88.29 Skeletal x-ray of lower limb, not otherwise specified

88.3 Other x-ray

88.31 Skeletal series
  X-ray of whole skeleton

88.32 Contrast arthrogram

*Excludes*: that of temporomandibular joint (87.13)

88.33 Other skeletal x-ray

*Excludes*: skeletal x-ray of:
  - extremities and pelvis (88.21-88.29)
  - face, head, and neck (87.11-87.17)
  - spine (87.21-87.29)
  - thorax (87.43)

88.34 Lymphangiogram of upper limb
88.35 Other soft tissue x-ray of upper limb
88.36 Lymphangiogram of lower limb
88.37 Other soft tissue x-ray of lower limb

*Excludes*: femoral angiography (88.48, 88.66)

88.38 Other computerized axial tomography®
  C.A.T. scan NOS

*Excludes*: C.A.T. scan of:
  - abdomen (88.01)
  - head (87.03)
  - heart (87.41)
  - kidney (87.71)
  - thorax (87.41)

88.39 X-ray, other and unspecified
88.4  Arteriography using contrast material

Includes:  angiography of arteries
           arterial puncture for injection of contrast material
           radiography of arteries (by fluoroscopy)
           retrograde arteriography

The fourth-digit subclassification identifies the site to be viewed, not the site
of injection.

Excludes: arteriography using:
          radioisotopes or radionuclides (92.01-92.19)
          ultrasound (88.71-88.79)
          fluorescein angiography of eye (95.12)

88.40  Arteriography using contrast material, unspecified site

88.41  Arteriography of cerebral arteries

Angiography of:
          basilar artery
          carotid (internal)
          posterior cerebral circulation
          vertebral artery

88.42  Aortography

Arteriography of aorta and aortic arch

88.43  Arteriography of pulmonary arteries

88.44  Arteriography of other intrathoracic vessels

Excludes: angiocardiography (88.50-88.58)
          arteriography of coronary arteries (88.55-88.57)

88.45  Arteriography of renal arteries

88.46  Arteriography of placenta

Placentogram using contrast material

88.47  Arteriography of other intra-abdominal arteries

88.48  Arteriography of femoral and other lower extremity arteries

88.49  Arteriography of other specified sites

88.5  Angiocardiography using contrast material

Includes:  arterial puncture and insertion of arterial catheter for injection of
          contrast material
          cineangiocardiography
          selective angiocardiography

Code also synchronous cardiac catheterization (37.21-37.23)

Excludes: angiocardiography of pulmonary vessels (88.43, 88.62)

88.50  Angiocardiography, not otherwise specified

88.51  Angiocardiography of venae cavae

Inferior vena cavography
Phlebography of vena cava (inferior) (superior)
88.52 **Angiocardiography of right heart structures**

Angiocardiography of:
- pulmonary valve
- right atrium
- right ventricle (outflow tract)

**Excludes:** that combined with left heart angiocardiography (88.54)
- intra-operative fluorescence vascular angiography (88.59)

88.53 **Angiocardiography of left heart structures**

Angiocardiography of:
- aortic valve
- left atrium
- left ventricle (outflow tract)

**Excludes:** that combined with right heart angiocardiography (88.54)
- intra-operative fluorescence vascular angiography (88.59)

88.54 **Combined right and left heart angiocardiography**

**Excludes:** intra-operative fluorescence vascular angiography (88.59)

88.55 **Coronary arteriography using a single catheter**

- Coronary arteriography by Sones technique
- Direct selective coronary arteriography using a single catheter

**Excludes:** intra-operative fluorescence vascular angiography (88.59)

88.56 **Coronary arteriography using two catheters**

- Coronary arteriography by:
  - Judkins technique
  - Ricketts and Abrams technique
  - Direct selective coronary arteriography using two catheters

**Excludes:** intra-operative fluorescence vascular angiography (88.59)

88.57 **Other and unspecified coronary arteriography**

- Coronary arteriography NOS

**Excludes:** intra-operative fluorescence vascular angiography (88.59)

88.58 **Negative-contrast cardiac roentgenography**

Cardiac roentgenography with injection of carbon dioxide

88.59 **Intra-operative fluorescence vascular angiography**

- Intraoperative laser arteriogram (SPY)
- SPY arteriogram
- SPY arteriography

88.6 **Phlebography**

Includes:
- angiography of veins
- radiography of veins (by fluoroscopy)
- retrograde phlebography
- venipuncture for injection of contrast material
- venography using contrast material

**Note:** The fourth-digit subclassification (88.60-88.67) identifies the site to be viewed, not the site of injection.
240

Excludes: angiography using:
radiosotopes or radionuclides (92.01-92.19)
ultrasound (88.71-88.79)
fluorescein angiography of eye (95.12)

88.60 Phlebography using contrast material, unspecified site
88.61 Phlebography of veins of head and neck using contrast material
88.62 Phlebography of pulmonary veins using contrast material
88.63 Phlebography of other intrathoracic veins using contrast material
88.64 Phlebography of the portal venous system using contrast material
   Splenoportogram (by splenic arteriography)
88.65 Phlebography of other intra-abdominal veins using contrast material
88.66 Phlebography of femoral and other lower extremity veins using contrast material
88.67 Phlebography of other specified sites using contrast material
88.68 Impedance phlebography

88.7 Diagnostic ultrasound

Includes: Echography
   Non-invasive ultrasound
   Ultrasonic angiography
   Ultrasonography

Excludes: intravascular imaging (adjunctive) (IVUS) (00.21-00.29)
   therapeutic ultrasound (00.01-00.09)

88.71 Diagnostic ultrasound of head and neck
   Determination of midline shift of brain
   Echoencephalography

Excludes: eye (95.13)

88.72 Diagnostic ultrasound of heart
   Echocardiography
   Transesophageal echocardiography

Excludes: echocardiography of heart chambers (37.28)
   intracardiac echocardiography (ICE) (37.28)
   intravascular (IVUS) imaging of coronary vessels (00.24)

88.73 Diagnostic ultrasound of other sites of thorax
   Aortic arch ultrasonography
   Breast ultrasonography
   Lung ultrasonography

88.74 Diagnostic ultrasound of digestive system

88.75 Diagnostic ultrasound of urinary system

88.76 Diagnostic ultrasound of abdomen and retroperitoneum

88.77 Diagnostic ultrasound of peripheral vascular system
   Deep vein thrombosis ultrasonic scanning

Excludes: adjunct vascular system procedures (00.40-00.43)
88.78 Diagnostic ultrasound of gravid uterus
Intrauterine cephalometry:
echo
ultrasonic
Placental localization by ultrasound

88.79 Other diagnostic ultrasound
Ultrasonography of:
multiple sites
nongravid uterus
total body

88.8 Thermography

88.81 Cerebral thermography

88.82 Ocular thermography

88.83 Bone thermography
Osteoarticular thermography

88.84 Muscle thermography

88.85 Breast thermography

88.86 Blood vessel thermography
Deep vein thermography

88.89 Thermography of other sites
Lymph gland thermography
Thermography NOS

88.9 Other diagnostic imaging

88.90 Diagnostic imaging, not elsewhere classified

88.91 Magnetic resonance imaging of brain and brain stem
Excludes: intraoperative magnetic resonance imaging (88.96)
real-time magnetic resonance imaging (88.96)
laser interstitial thermal therapy [LITT] of lesion or tissue of brain under guidance (17.61)

88.92 Magnetic resonance imaging of chest and myocardium
For evaluation of hilar and mediastinal lymphadenopathy
Excludes: laser interstitial thermal therapy [LITT] of lesion or tissue of breast under guidance (17.69)
laser interstitial thermal therapy [LITT] of lesion or tissue of lung under guidance (17.69)

88.93 Magnetic resonance imaging of spinal canal
Spinal cord levels:
cervical
thoracic
lumbar (lumbosacral)
Spinal cord
Spine

88.94 Magnetic resonance imaging of musculoskeletal
Bone marrow blood supply
Extremities (upper) (lower)
88.95 **Magnetic resonance imaging of pelvis, prostate, and bladder**

*Excludes:* laser interstitial thermal therapy [LITT] of lesion or tissue of prostate under guidance (17.69)

88.96 **Other intraoperative magnetic resonance imaging**

- iMRI
- Real-time magnetic resonance imaging

88.97 **Magnetic resonance imaging of other and unspecified sites**

- Abdomen
- Eye orbit
- Face
- Neck

*Excludes:* laser interstitial thermal therapy [LITT] of lesion or tissue of other and unspecified site under guidance (17.69)

88.98 **Bone mineral density studies**

- Dual photon absorptiometry
- Quantitative computed tomography (CT) studies
- Radiographic densitometry
- Single photon absorptiometry

89 **Interview, evaluation, consultation, and examination**

89.0 **Diagnostic interview, consultation, and evaluation**

*Excludes:* psychiatric diagnostic interview (94.11-94.19)

89.01 **Interview and evaluation, described as brief**

Abbreviated history and evaluation

89.02 **Interview and evaluation, described as limited**

Interval history and evaluation

89.03 **Interview and evaluation, described as comprehensive**

History and evaluation of new problem

89.04 **Other interview and evaluation**

89.05 **Diagnostic interview and evaluation, not otherwise specified**

89.06 **Consultation, described as limited**

Consultation on a single organ system

89.07 **Consultation, described as comprehensive**

89.08 **Other consultation**

89.09 **Consultation, not otherwise specified**

89.1 **Anatomic and physiologic measurements and manual examinations**

- nervous system and sense organs

*Excludes:* ear examination (95.41-95.49)

- eye examination (95.01-95.26)

the listed procedures when done as part of a general physical examination (89.7)

89.10 **Intracarotid amobarbital test**

Wada test

89.11 **Tonometry**
89.12 Nasal function study
   Rhinomanometry
89.13 Neurologic examination
89.14 Electroencephalogram
   Excludes: that with polysomnogram (89.17)
89.15 Other nonoperative neurologic function tests
89.16 Transillumination of newborn skull
89.17 Polysomnogram
   Sleep recording
89.18 Other sleep disorder function tests
   Multiple sleep latency test [MSLT]
89.19 Video and radio-telemetered electroencephalographic monitoring
   Radiographic EEG monitoring
   Video EEG monitoring

89.2 Anatomic and physiologic measurements and manual examinations — genitourinary system
   Excludes: the listed procedures when done as part of a general physical examination (89.7)
89.21 Urinary manometry
   Manometry through:
   indwelling ureteral catheter
   nephrostomy
   pyelostomy
   ureterostomy
89.22 Cystometrogram
89.23 Urethral sphincter electromyogram
89.24 Uroflowmetry [UFR]
89.25 Urethral pressure profile [UPP]
89.26 Gynecological examination
   Pelvic examination
89.29 Other nonoperative genitourinary system measurements
   Bioassay of urine
   Renal clearance
   Urine chemistry

89.3 Other anatomic and physiologic measurements and manual examinations
   Excludes: the listed procedures when done as part of a general physical examination (89.7)
89.31 Dental examination
   Oral mucosal survey
   Periodontal survey
89.32 Esophageal manometry
89.33 Digital examination of enterostomy stoma
   Digital examination of colostomy stoma
89.34 Digital examination of rectum
89.35 Transillumination of nasal sinuses
89.36 Manual examination of breast
89.37 Vital capacity determination

Excludes: endoscopic pulmonary airway flow measurement (33.72)

89.38 Other nonoperative respiratory measurements

Plethysmography for measurement of respiratory function
Thoracic impedance plethysmography

Excludes: endoscopic pulmonary airway flow measurement (33.72)

89.39 Other nonoperative measurements and examinations

14 C-Urea breath test
Basal metabolic rate [BMR]
Gastric:
  analysis
  function NEC

Excludes: body measurement (93.07)
  cardiac tests (89.41-89.69)
  fundus photography (95.11)
  limb length measurement (93.06)

89.4 Cardiac stress tests, pacemaker and defibrillator checks

89.41 Cardiovascular stress test using treadmill
89.42 Masters’ two-step stress test
89.43 Cardiovascular stress test using bicycle ergometer
89.44 Other cardiovascular stress test
  Thallium stress test with or without transesophageal pacing

89.45 Artificial pacemaker rate check
  Artificial pacemaker function check NOS
  Bedside device check of pacemaker or cardiac resynchronization pacemaker [CRT-P]
  Interrogation only without arrhythmia induction

Excludes: catheter based invasive electrophysiologic testing (37.26)
  non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)

89.46 Artificial pacemaker artifact waveform check
89.47 Artificial pacemaker electrode impedance check
89.48 Artificial pacemaker voltage or amperage threshold check

89.49 Automatic implantable cardioverter/defibrillator (AICD) check
  Bedside check of an AICD or cardiac resynchronization defibrillator [CRT-D]
  Checking pacing thresholds of device
  Interrogation only without arrhythmia induction

Excludes: catheter based invasive electrophysiologic testing (37.26)
  non-invasive programmed electrical stimulation [NIPS] (arrhythmia induction) (37.20)
89.5 Other nonoperative cardiac and vascular diagnostic procedures

Excludes: fetal EKG (75.32)

89.50 Ambulatory cardiac monitoring
Analog devices [Holter-type]

89.51 Rhythm electrocardiogram
Rhythm EKG (with one to three leads)

89.52 Electrocardiogram
ECG NOS
EKG (with 12 or more leads)

89.53 Vectorcardiogram (with ECG)

89.54 Electrographic monitoring
Telemetry

Excludes: ambulatory cardiac monitoring (89.50)
electrographic monitoring during surgery --omit code

89.55 Phonocardiogram with ECG lead

89.56 Carotid pulse tracing with ECG lead

Excludes: oculoplethysmography (89.58)

89.57 Apexcardiogram (with ECG lead)

89.58 Plethysmogram
Penile plethysmography with nerve stimulation

Excludes: plethysmography (for):
measurement of respiratory function (89.38)
thoracic impedance (89.38)

89.59 Other nonoperative cardiac and vascular measurements

89.6 Circulatory monitoring

Excludes: electrocardiographic monitoring during surgery --omit code
implantation or replacement of subcutaneous device for intracardiac hemodynamic monitoring (00.57)
insertion or replacement of implantable pressure sensor (lead) for intracardiac hemodynamic monitoring (00.56)

89.60 Continuous intra-arterial blood gas monitoring
Insertion of blood gas monitoring system and continuous monitoring of blood gases through an intra-arterial sensor

89.61 Systemic arterial pressure monitoring ®

Excludes: intra-aneurysm sac pressure monitoring (intraoperative) (00.58)
intravascular pressure measurement of intrathoracic arteries (00.67)
intravascular pressure measurement of peripheral arteries (00.68)

89.62 Central venous pressure monitoring ®

Excludes: intravascular pressure measurement, other specified and unspecified vessels (00.69)
89.63 **Pulmonary artery pressure monitoring**

*Excludes:* pulmonary artery wedge monitoring (89.64)

89.64 **Pulmonary artery wedge monitoring**

Pulmonary capillary wedge [PCW] monitoring
Swan-Ganz catheterization

89.65 **Measurement of systemic arterial blood gases**

*Excludes:* continuous intra-arterial blood gas monitoring (89.60)

89.66 **Measurement of mixed venous blood gases**

89.67 **Monitoring of cardiac output by oxygen consumption technique**

Fick method

89.68 **Monitoring of cardiac output by other technique**

Cardiac output monitor by thermodilution indicator

89.69 **Monitoring of coronary blood flow**

Coronary blood flow monitoring by coincidence counting technique

*Excludes:* intravascular pressure measurement of coronary arteries (00.59)

89.7 **General physical examination**

89.8 **Autopsy**

90 **Microscopic examination- I**

The following fourth-digit subclassification is for use with categories in section 90 to identify type of examination:

| 1 | bacterial smear |
| 2 | culture |
| 3 | culture and sensitivity |
| 4 | parasitology |
| 5 | toxicology |
| 6 | cell block and Papanicolaou smear |
| 9 | other microscopic examination |

90.0 **Microscopic examination of specimen from nervous system and of spinal fluid**

90.1 **Microscopic examination of specimen from endocrine gland, not elsewhere classified**

90.2 **Microscopic examination of specimen from eye**

90.3 **Microscopic examination of specimen from ear, nose, throat, and larynx**

90.4 **Microscopic examination of specimen from trachea, bronchus, pleura, lung, and other thoracic specimen, and of sputum**

90.5 **Microscopic examination of blood**

90.6 **Microscopic examination of specimen from spleen and of bone marrow**
90.7 Microscopic examination of specimen from lymph node and of lymph

90.8 Microscopic examination of specimen from upper gastrointestinal tract and of vomitus

90.9 Microscopic examination of specimen from lower gastrointestinal tract and of stool

91 Microscopic examination- II
The following fourth-digit subclassification is for use with categories in section 91 to identify type of examination

<table>
<thead>
<tr>
<th>Digit</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>bacterial smear</td>
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<tr>
<td>2</td>
<td>culture</td>
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<tr>
<td>3</td>
<td>culture and sensitivity</td>
</tr>
<tr>
<td>4</td>
<td>parasitology</td>
</tr>
<tr>
<td>5</td>
<td>toxicology</td>
</tr>
<tr>
<td>6</td>
<td>cell block and Papanicolaou smear</td>
</tr>
<tr>
<td>9</td>
<td>other microscopic examination</td>
</tr>
</tbody>
</table>

91.0 Microscopic examination of specimen from liver, biliary tract, and pancreas

91.1 Microscopic examination of peritoneal and retroperitoneal specimen

91.2 Microscopic examination of specimen from kidney, ureter, perirenal and periureteral tissue

91.3 Microscopic examination of specimen from bladder, urethra, prostate, seminal vesicle, perivesical tissue, and of urine and semen

91.4 Microscopic examination of specimen from female genital tract
   Amnion/sac
   Fetus

91.5 Microscopic examination of specimen from musculoskeletal system and of joint fluid
   Microscopic examination of:
   bone
   bursa
   cartilage
   fascia
   ligament
   muscle
   synovial membrane
   tendon
91.6 Microscopic examination of specimen from skin and other integument

Microscopic examination of:
- hair
- nails
- skin

Excludes: mucous membrane -- code to organ site that of operative wound (91.71-91.79)

91.7 Microscopic examination of specimen from operative wound

91.8 Microscopic examination of specimen from other site

91.9 Microscopic examination of specimen from unspecified site

92 Nuclear medicine

92.0 Radioisotope scan and function study

92.01 Thyroid scan and radioisotope function studies
  - Iodine- 131 uptake
  - Protein- bound iodine
  - Radio- iodine uptake

92.02 Liver scan and radioisotope function study

92.03 Renal scan and radioisotope function study
  - Renal clearance study

92.04 Gastrointestinal scan and radioisotope function study
  - Radio- cobalt B12 Schilling test
  - Radio- iodinated triolein study

92.05 Cardiovascular and hematopoietic scan and radioisotope function study
  - Bone marrow scan or function study
  - Cardiac output scan or function study
  - Circulation time scan or function study
  - Radionuclide cardiac ventriculogram scan or function study
  - Spleen scan or function study

92.09 Other radioisotope function studies

92.1 Other radioisotope scan

92.11 Cerebral scan
  - Pituitary

92.12 Scan of other sites of head
  Excludes: eye (95.16)

92.13 Parathyroid scan

92.14 Bone scan

92.15 Pulmonary scan

92.16 Scan of lymphatic system

92.17 Placental scan

92.18 Total body scan

92.19 Scan of other sites
92.2 **Therapeutic radiology and nuclear medicine**

*Excludes:* that for:
- ablation of pituitary gland (07.64-07.69)
- destruction of chorioretinal lesion (14.26-14.27)

92.20 **Infusion of liquid brachytherapy radioisotope**

- I- 125 radioisotope
- Intracavitary brachytherapy

*Includes:* removal of radioisotope

92.21 **Superficial radiation**

- Contact radiation [up to 150 KVP]

92.22 **Orthovoltage radiation**

- Deep radiation [200- 300 KVP]

92.23 **Radioisotopic teleradiotherapy**

- Teleradiotherapy using:
  - cobalt- 60
  - iodine- 125
  - radioactive cesium

92.24 **Teleradiotherapy using photons**

- Megavoltage NOS
- Supervoltage NOS

*Use of:*
- Betatron
- linear accelerator

92.25 **Teleradiotherapy using electrons**

- Beta particles

*Excludes:* *intra-operative electron radiation therapy* (92.41)

92.26 **Teleradiotherapy of other particulate radiation**

- Neutrons
- Protons NOS

92.27 **Implantation or insertion of radioactive elements**

- Intravascular brachytherapy

*Code also incision of site*

*Excludes:* *infusion of liquid brachytherapy radioisotope* (92.20)

92.28 **Injection or instillation of radioisotopes**

- Injection or infusion of radioimmunoconjugate
- Intracavitary injection or instillation
- Intravenous injection or instillation
- Iodine- 131 [I- 131] tositumomab
- Radioimmunotherapy
- Yttrium- 90 [Y- 90] ibritumomab tiuxetan

*Excludes:* *infusion of liquid brachytherapy radioisotope* (92.20)

92.29 **Other radiotherapeutic procedure**

92.3 **Stereotactic radiosurgery**

*Code also stereotactic head frame application* (93.59)

*Excludes:* *stereotactic biopsy*

92.30 **Stereotactic radiosurgery, not otherwise specified**
92.31 Single source photon radiosurgery
   High energy x-rays
   Linear accelerator (LINAC)

92.32 Multi-source photon radiosurgery
   Cobalt 60 radiation
   Gamma irradiation

92.33 Particulate radiosurgery
   Particle beam radiation (cyclotron)
   Proton accelerator

92.39 Stereotactic radiosurgery, not elsewhere classified

92.4 Intra-operative radiation procedures
   92.41 Intra-operative electron radiation therapy (IOERT)
      That using a mobile linear accelerator

93 Physical therapy, respiratory therapy, rehabilitation, and related procedures

93.0 Diagnostic physical therapy
   93.01 Functional evaluation
   93.02 Orthotic evaluation
   93.03 Prosthetic evaluation
   93.04 Manual testing of muscle function
   93.05 Range of motion testing
   93.06 Measurement of limb length
   93.07 Body measurement
      Girth measurement
      Measurement of skull circumference
   93.08 Electromyography
      Excludes: eye EMG (95.25)
      that with polysomnogram (89.17)
      urethral sphincter EMG (89.23)
   93.09 Other diagnostic physical therapy procedure

93.1 Physical therapy exercises
   93.11 Assisting exercise
      Excludes: assisted exercise in pool (93.31)
   93.12 Other active musculoskeletal exercise
   93.13 Resistive exercise
   93.14 Training in joint movements
   93.15 Mobilization of spine
   93.16 Mobilization of other joints
      Excludes: manipulation of temporomandibular joint (76.95)
93.17 Other passive musculoskeletal exercise
93.18 Breathing exercise
93.19 Exercise, not elsewhere classified

93.2 Other physical therapy musculoskeletal manipulation

93.21 Manual and mechanical traction
   Excludes: skeletal traction (93.43-93.44)
   skin traction (93.45-93.46)
   spinal traction (93.41-93.42)

93.22 Ambulation and gait training
93.23 Fitting of orthotic device
93.24 Training in use of prosthetic or orthotic device
   Training in crutch walking
93.25 Forced extension of limb
93.26 Manual rupture of joint adhesions
93.27 Stretching of muscle or tendon
93.28 Stretching of fascia
93.29 Other forcible correction of deformity

93.3 Other physical therapy therapeutic procedures

93.31 Assisted exercise in pool
93.32 Whirlpool treatment
93.33 Other hydrotherapy
93.34 Diathermy
93.35 Other heat therapy
   Acupuncture with smouldering moxa
   Hot packs
   Hyperthermia NEC
   Infrared irradiation
   Moxibustion
   Paraffin bath
   Excludes: hyperthermia for treatment of cancer (99.85)
93.36 Cardiac retraining
93.37 Prenatal training
   Training for natural childbirth
93.38 Combined physical therapy without mention of the components
93.39 Other physical therapy

93.4 Skeletal traction and other traction

93.41 Spinal traction using skull device
   Traction using:
   caliper tongs
   Crutchfield tongs
   halo device
   Vinke tongs
   Excludes: insertion of tongs or halo traction device (02.94)
93.42 Other spinal traction
   Cotrel's traction
   *Excludes:* cervical collar (93.52)

93.43 Intermittent skeletal traction

93.44 Other skeletal traction
   Bryant's traction
   Dunlop's traction
   Lyman Smith traction
   Russell's traction

93.45 Thomas' splint traction

93.46 Other skin traction of limbs
   Adhesive tape traction
   Boot traction
   Buck's traction
   Gallows traction

93.5 Other immobilization, pressure, and attention to wound
   *Excludes:* external fixator device (84.71-84.73)
   wound cleansing (96.58-96.59)

93.51 Application of plaster jacket
   *Excludes:* Minerva jacket (93.52)

93.52 Application of neck support
   Application of:
   cervical collar
   Minerva jacket
   molded neck support

93.53 Application of other cast

93.54 Application of splint
   Plaster splint
   Tray splint
   *Excludes:* periodontal splint (24.7)

93.55 Dental wiring
   *Excludes:* that for orthodontia (24.7)

93.56 Application of pressure dressing
   Application of:
   Gibney bandage
   Robert Jones' bandage
   Shanz dressing

93.57 Application of other wound dressing
   Porcine wound dressing

93.58 Application of pressure trousers
   Application of:
   anti-shock trousers
   MAST trousers
   vasopneumatic device
93.59 Other immobilization, pressure, and attention to wound
   Elastic stockings
   Electronic gaiter
   Intermittent pressure device
   Oxygenation of wound (hyperbaric)
   Stereotactic head frame application
   Velpeau dressing

93.6 Osteopathic manipulative treatment
93.61 Osteopathic manipulative treatment for general mobilization
   General articulatory treatment
93.62 Osteopathic manipulative treatment using high-velocity, low-amplitude forces
   Thrusting forces
93.63 Osteopathic manipulative treatment using low-velocity, high-amplitude forces
   Springing forces
93.64 Osteopathic manipulative treatment using isotonic, isometric forces
93.65 Osteopathic manipulative treatment using indirect forces
93.66 Osteopathic manipulative treatment to move tissue fluids
   Lymphatic pump
93.67 Other specified osteopathic manipulative treatment

93.7 Speech and reading rehabilitation and rehabilitation of the blind
93.71 Dyslexia training
93.72 Dysphasia training
93.73 Esophageal speech training
93.74 Speech defect training
93.75 Other speech training and therapy
93.76 Training in use of lead dog for the blind
93.77 Training in braille or Moon
93.78 Other rehabilitation for the blind

93.8 Other rehabilitation therapy
93.81 Recreation therapy
   Diversional therapy
   Play therapy
   *Excludes: play psychotherapy (94.36)*
93.82 Educational therapy
   Education of bed-bound children
   Special schooling for the handicapped
93.83 Occupational therapy
   Daily living activities therapy
   *Excludes: training in activities of daily living for the blind (93.78)*
93.84 Music therapy
93.85 **Vocational rehabilitation**
- Sheltered employment
- Vocational:
  - assessment
  - retraining
  - training

93.89 **Rehabilitation, not elsewhere classified**

93.9 **Respiratory therapy**

*Excludes:* insertion of airway (96.01-96.05)
other continuous invasive (through endotracheal tube or tracheostomy) mechanical ventilation (96.70-96.72)

93.90 **Non-invasive mechanical ventilation**

Bi-level airway pressure
BIPAP without (delivery through) endotracheal tube or tracheostomy
CPAP without (delivery through) endotracheal tube or tracheostomy
Mechanical ventilation NOS
Non-invasive PPV
Non-invasive positive pressure (NIPPV)
NPPV
That delivered by non-invasive interface:
  - face mask
  - nasal mask
  - nasal pillow
  - oral mouthpiece
  - oronasal mask

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

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

93.91 **Intermittent positive pressure breathing [IPPB]**

93.93 **Nonmechanical methods of resuscitation**

Artificial respiration
Manual resuscitation
Mouth- to- mouth resuscitation

93.94 **Respiratory medication administered by nebulizer**

Mist therapy

93.95 **Hyperbaric oxygenation**

*Excludes:* oxygenation of wound (93.59)

93.96 **Other oxygen enrichment**

Catalytic oxygen therapy
Cytoreductive effect
Oxygenators
Oxygen therapy

*Excludes:* oxygenation of wound (93.59) SuperSaturated oxygen therapy (00.49)

93.97 **Decompression chamber**
93.98 Other control of atmospheric pressure and composition
   Antigen-free air conditioning
   Helium therapy

   Excludes: inhaled nitric oxide therapy (INO) (00.12)

93.99 Other respiratory procedures
   Continuous negative pressure ventilation [CNP]
   Postural drainage

94 Procedures related to the psyche

94.0 Psychologic evaluation and testing

94.01 Administration of intelligence test
   Administration of:
   Stanford-Binet
   Wechsler Adult Intelligence Scale
   Wechsler Intelligence Scale for Children

94.02 Administration of psychologic test
   Administration of:
   Bender Visual-Motor Gestalt Test
   Benton Visual Retention Test
   Minnesota Multiphasic Personality Inventory
   Wechsler Memory Scale

94.03 Character analysis

94.08 Other psychologic evaluation and testing

94.09 Psychologic mental status determination, not otherwise specified

94.1 Psychiatric interviews, consultations, and evaluations

94.11 Psychiatric mental status determination
   Clinical psychiatric mental status determination
   Evaluation for criminal responsibility
   Evaluation for testimentary capacity
   Medicolegal mental status determination
   Mental status determination NOS

94.12 Routine psychiatric visit, not otherwise specified

94.13 Psychiatric commitment evaluation
   Pre-commitment interview

94.19 Other psychiatric interview and evaluation
   Follow-up psychiatric interview NOS

94.2 Psychiatric somatotherapy

94.21 Narcoanalysis
   Narcosynthesis

94.22 Lithium therapy

94.23 Neuroleptic therapy

94.24 Chemical shock therapy

94.25 Other psychiatric drug therapy

94.26 Subconvulsive electroshock therapy
94.27 Other electroshock therapy
Electroconvulsive therapy (ECT)
EST
94.29 Other psychiatric somatotherapy

94.3 Individual psychotherapy
94.31 Psychoanalysis
94.32 Hypnotherapy
  Hypnodrome
  Hypnosis
94.33 Behavior therapy
  Aversion therapy
  Behavior modification
  Desensitization therapy
  Extinction therapy
  Relaxation training
  Token economy
94.34 Individual therapy for psychosexual dysfunction
  *Excludes*: that performed in group setting (94.41)
94.35 Crisis intervention
94.36 Play psychotherapy
94.37 Exploratory verbal psychotherapy
94.38 Supportive verbal psychotherapy
94.39 Other individual psychotherapy
  Biofeedback

94.4 Other psychotherapy and counselling
94.41 Group therapy for psychosexual dysfunction
94.42 Family therapy
94.43 Psychodrama
94.44 Other group therapy
94.45 Drug addiction counselling
94.46 Alcoholism counselling
94.49 Other counselling

94.5 Referral for psychologic rehabilitation
94.51 Referral for psychotherapy
94.52 Referral for psychiatric aftercare:
  That in:
    halfway house
    outpatient (clinic) facility
94.53 Referral for alcoholism rehabilitation
94.54 Referral for drug addiction rehabilitation
94.55 Referral for vocational rehabilitation
94.59 Referral for other psychologic rehabilitation
94.6 Alcohol and drug rehabilitation and detoxification
   94.61 Alcohol rehabilitation
   94.62 Alcohol detoxification
   94.63 Alcohol rehabilitation and detoxification
   94.64 Drug rehabilitation
   94.65 Drug detoxification
   94.66 Drug rehabilitation and detoxification
   94.67 Combined alcohol and drug rehabilitation
   94.68 Combined alcohol and drug detoxification
   94.69 Combined alcohol and drug rehabilitation and detoxification

95 Ophthalmologic and otologic diagnosis and treatment

95.0 General and subjective eye examination
   95.01 Limited eye examination
      Eye examination with prescription of spectacles
   95.02 Comprehensive eye examination
      Eye examination covering all aspects of the visual system
   95.03 Extended ophthalmologic work-up
      Examination (for):
      - glaucoma
      - neuro-ophthalmology
      - retinal disease
   95.04 Eye examination under anesthesia
      Code also type of examination
   95.05 Visual field study
   95.06 Color vision study
   95.07 Dark adaptation study
   95.09 Eye examination, not otherwise specified
      Vision check NOS

95.1 Examinations of form and structure of eye
   95.11 Fundus photography
   95.12 Fluorescein angiography or angioscopy of eye
   95.13 Ultrasound study of eye
   95.14 X-ray study of eye
   95.15 Ocular motility study
   95.16 P32 and other tracer studies of eye

95.2 Objective functional tests of eye
   Excludes: that with polysomnogram (89.17)
   95.21 Electroretinogram [ERG]
   95.22 Electro-oculogram [EOG]
   95.23 Visual evoked potential [VEP]
95.24 Electronystagmogram [ENG]
95.25 Electromyogram of eye [EMG]
95.26 Tonography, provocative tests, and other glaucoma testing

95.3 Special vision services
95.31 Fitting and dispensing of spectacles
95.32 Prescription, fitting, and dispensing of contact lens
95.33 Dispensing of other low vision aids
95.34 Ocular prosthetics
95.35 Orthoptic training
95.36 Ophthalmologic counselling and instruction
   Counselling in:
   - adaptation to visual loss
   - use of low vision aids

95.4 Nonoperative procedures related to hearing
95.41 Audiometry
   - Békésy 5-tone audiometry
   - Impedance audiometry
   - Stapedial reflex response
   - Subjective audiometry
   - Tympanogram

95.42 Clinical test of hearing
   - Tuning fork test
   - Whispered speech test

95.43 Audiological evaluation
   - Audiological evaluation by:
     - Bárány noise machine
     - blindfold test
     - delayed feedback
     - masking
     - Weber lateralization

95.44 Clinical vestibular function tests
   - Thermal test of vestibular function

95.45 Rotation tests
   - Bárány chair

95.46 Other auditory and vestibular function tests

95.47 Hearing examination, not otherwise specified

95.48 Fitting of hearing aid
   - Excludes: implantation of electromagnetic hearing device (20.95)

95.49 Other nonoperative procedures related to hearing
   - Adjustment (external components) of cochlear prosthetic device
96 Nonoperative intubation and irrigation

96.0 Nonoperative intubation of gastrointestinal and respiratory tracts
   96.01 Insertion of nasopharyngeal airway
   96.02 Insertion of oropharyngeal airway
   96.03 Insertion of esophageal obturator airway
   96.04 Insertion of endotracheal tube
   96.05 Other intubation of respiratory tract
      Excludes: endoscopic insertion or replacement of bronchial device or substance (33.71, 33.79)
   96.06 Insertion of Sengstaken tube
      Esophageal tamponade
   96.07 Insertion of other (naso-)gastric tube
      Intubation for decompression
      Excludes: that for enteral infusion of nutritional substance (96.6)
   96.08 Insertion of (naso-)intestinal tube
      Miller-Abbott tube (for decompression)
   96.09 Insertion of rectal tube
      Replacement of rectal tube

96.1 Other nonoperative insertion
   Excludes: nasolacrimal intubation (09.44)
   96.11 Packing of external auditory canal
   96.14 Vaginal packing
   96.15 Insertion of vaginal mold
   96.16 Other vaginal dilation
   96.17 Insertion of vaginal diaphragm
   96.18 Insertion of other vaginal pessary
   96.19 Rectal packing

96.2 Nonoperative dilation and manipulation
   96.21 Dilation of frontonasal duct
   96.22 Dilation of rectum
   96.23 Dilation of anal sphincter
   96.24 Dilation and manipulation of enterostomy stoma
   96.25 Therapeutic distention of bladder
      Intermittent distention of bladder
   96.26 Manual reduction of rectal prolapse
   96.27 Manual reduction of hernia
   96.28 Manual reduction of enterostomy prolapse
96.29  Reduction of intussusception of alimentary tract
With:
   fluoroscopy
   ionizing radiation enema
   ultrasonography guidance
   Hydrostatic reduction
   Pneumatic reduction

*Excludes:* intra-abdominal manipulation of intestine, not otherwise specified (46.80)

96.3  Nonoperative alimentary tract irrigation, cleaning, and local instillation

96.31  Gastric cooling
   Gastric hypothermia

96.32  Gastric freezing

96.33  Gastric lavage

96.34  Other irrigation of (naso-)gastric tube

96.35  Gastric gavage

96.36  Irrigation of gastrostomy or enterostomy

96.37  Proctoclysis

96.38  Removal of impacted feces
   Removal of impaction:
      by flushing manually

96.39  Other transanal enema
   Rectal irrigation

*Excludes:* reduction of intussusception of alimentary tract by ionizing radiation enema (96.29)

96.4  Nonoperative irrigation, cleaning, and local instillation of other digestive and genitourinary organs

96.41  Irrigation of cholecystostomy and other biliary tube

96.42  Irrigation of pancreatic tube

96.43  Digestive tract instillation, except gastric gavage

96.44  Vaginal douche

96.45  Irrigation of nephrostomy and pyelostomy

96.46  Irrigation of ureterostomy and ureteral catheter

96.47  Irrigation of cystostomy

96.48  Irrigation of other indwelling urinary catheter

96.49  Other genitourinary instillation
   Insertion of prostaglandin suppository

96.5  Other nonoperative irrigation and cleaning

96.51  Irrigation of eye
   Irrigation of cornea

*Excludes:* irrigation with removal of foreign body (98.21)
MISCELLANEOUS DIAGNOSTIC AND THERAPEUTIC PROCEDURES (87-99)

96.52 **Irrigation of ear**
Irrigation with removal of cerumen

96.53 **Irrigation of nasal passages**

96.54 **Dental scaling, polishing, and debridement**
Dental prophylaxis
Plaque removal

96.55 **Tracheostomy toilette**

96.56 **Other lavage of bronchus and trachea**
*Excludes:* diagnostic bronchoalveolar lavage (BAL) (33.24)
whole lung lavage (33.99)

96.57 **Irrigation of vascular catheter**

96.58 **Irrigation of wound catheter**

96.59 **Other irrigation of wound**
Wound cleaning NOS
*Excludes:* debridement (86.22, 86.27-86.28)

96.6 **Enteral infusion of concentrated nutritional substances**

96.7 **Other continuous invasive mechanical ventilation**
*Includes:* Endotracheal respiratory assistance
BiPAP delivered through endotracheal tube or tracheostomy (invasive interface)
CPAP delivered through endotracheal tube or tracheostomy (invasive interface)
Invasive positive pressure ventilation [IPPV]
Mechanical ventilation through invasive interface
That by tracheostomy
Weaning of an intubated (endotracheal tube) patient

*Excludes:* non-invasive bi-level positive airway pressure [BiPAP] (93.90)
continuous negative pressure ventilation [CNP] (iron lung) (cuirass) (93.99)
non-invasive continuous positive airway pressure [CPAP] (93.90)
intermittent positive pressure breathing [IPPB] (93.91)
non-invasive positive pressure (NIPPV) (93.90)
that by face mask (93.90-93.99)
that by nasal cannula (93.90-93.99)
that by nasal catheter (93.90-93.99)

Code also any associated:
endotracheal tube insertion (96.04)
tracheostomy (31.1-31.29)

**Note:** Endotracheal Intubation
To calculate the number of hours (duration) of continuous mechanical ventilation during a hospitalization, begin the count from the start of the (endotracheal) intubation. The duration ends with (endotracheal) extubation.

If a patient is intubated prior to admission, begin counting the duration from the time of the admission. If a patient is transferred (discharged) while intubated, the duration would end at the time of transfer (discharge).
For patients who begin on (endotracheal) intubation and subsequently have a tracheostomy performed for mechanical ventilation, the duration begins with the (endotracheal) intubation and ends when the mechanical ventilation is turned off (after the weaning period).

**Tracheostomy**

To calculate the number of hours of continuous mechanical ventilation during a hospitalization, begin counting the duration when mechanical ventilation is started. The duration ends when the mechanical ventilator is turned off (after the weaning period).

If a patient has received a tracheostomy prior to admission and is on mechanical ventilation at the time of admission, begin counting the duration from the time of admission. If a patient is transferred (discharged) while still on mechanical ventilation via tracheostomy, the duration would end at the time of the transfer (discharge).

96.70  **Continuous invasive mechanical ventilation of unspecified duration**
- **Invasive mechanical ventilation NOS**

96.71  **Continuous invasive mechanical ventilation for less than 96 consecutive hours**

96.72  **Continuous invasive mechanical ventilation for 96 consecutive hours or more**

97  **Replacement and removal of therapeutic appliances**

97.0  **Nonoperative replacement of gastrointestinal appliance**
  97.01  **Replacement of (naso-)gastric or esophagostomy tube**
  97.02  **Replacement of gastrostomy tube**
  97.03  **Replacement of tube or enterostomy device of small intestine**
  97.04  **Replacement of tube or enterostomy device of large intestine**
  97.05  **Replacement of stent (tube) in biliary or pancreatic duct**

97.1  **Nonoperative replacement of musculoskeletal and integumentary system appliance**
  97.11  **Replacement of cast on upper limb**
  97.12  **Replacement of cast on lower limb**
  97.13  **Replacement of other cast**
  97.14  **Replacement of other device for musculoskeletal immobilization**
    - Splinting
    - Strapping
  97.15  **Replacement of wound catheter**
  97.16  **Replacement of wound packing or drain**

*Excludes*: repacking of:
- dental wound *(97.22)*
- vulvar wound *(97.26)*
97.2 Other nonoperative replacement
   97.21 Replacement of nasal packing
   97.22 Replacement of dental packing
   97.23 Replacement of tracheostomy tube
   97.24 Replacement and refitting of vaginal diaphragm
   97.25 Replacement of other vaginal pessary
   97.26 Replacement of vaginal or vulvar packing or drain
   97.29 Other nonoperative replacements

97.3 Nonoperative removal of therapeutic device from head and neck
   97.31 Removal of eye prosthesis
      Excludes: removal of ocular implant (16.71)
      removal of orbital implant (16.72)
   97.32 Removal of nasal packing
   97.33 Removal of dental wiring
   97.34 Removal of dental packing
   97.35 Removal of dental prosthesis
   97.36 Removal of other external mandibular fixation device
   97.37 Removal of tracheostomy tube
   97.38 Removal of sutures from head and neck
   97.39 Removal of other therapeutic device from head and neck
      Excludes: removal of skull tongs (02.94)

97.4 Nonoperative removal of therapeutic device from thorax
   97.41 Removal of thoracotomy tube or pleural cavity drain
   97.42 Removal of mediastinal drain
   97.43 Removal of sutures from thorax
   97.44 Nonoperative removal of heart assist system
      Explantation [removal] of circulatory assist device
      Explantation [removal] of percutaneous external heart assist device
      Intra- aortic balloon pump [IABP]
      Removal of extrinsic heart assist device
      Removal of pVAD
      Removal of percutaneous heart assist device
   97.49 Removal of other device from thorax
      Excludes: Endoscopic removal of bronchial device(s) or substances
      (33.78)

97.5 Nonoperative removal of therapeutic device from digestive system
   97.51 Removal of gastrostomy tube
   97.52 Removal of tube from small intestine
   97.53 Removal of tube from large intestine or appendix
   97.54 Removal of cholecystostomy tube
97.55 Removal of T-tube, other bile duct tube, or liver tube
   Removal of bile duct stent
97.56 Removal of pancreatic tube or drain
97.59 Removal of other device from digestive system
   Removal of rectal packing

97.6 Nonoperative removal of therapeutic device from urinary system
97.61 Removal of pyelostomy and nephrostomy tube
97.62 Removal of ureterostomy tube and ureteral catheter
97.63 Removal of cystostomy tube
97.64 Removal of other urinary drainage device
   Removal of indwelling urinary catheter
97.65 Removal of urethral stent
97.69 Removal of other device from urinary system

97.7 Nonoperative removal of therapeutic device from genital system
97.71 Removal of intrauterine contraceptive device
97.72 Removal of intrauterine pack
97.73 Removal of vaginal diaphragm
97.74 Removal of other vaginal pessary
97.75 Removal of vaginal or vulvar packing
97.79 Removal of other device from genital tract
   Removal of sutures

97.8 Other nonoperative removal of therapeutic device
97.81 Removal of retroperitoneal drainage device
97.82 Removal of peritoneal drainage device
97.83 Removal of abdominal wall sutures
97.84 Removal of sutures from trunk, not elsewhere classified
97.85 Removal of packing from trunk, not elsewhere classified
97.86 Removal of other device from abdomen
97.87 Removal of other device from trunk
97.88 Removal of external immobilization device
   Removal of:
   brace
   cast
   splint
97.89 Removal of other therapeutic device

98 Nonoperative removal of foreign body or calculus

98.0 Removal of intraluminal foreign body from digestive system without incision
   Excludes: removal of therapeutic device (97.51-97.59)
98.01 Removal of intraluminal foreign body from mouth without incision
98.02  Removal of intraluminal foreign body from esophagus without incision
98.03  Removal of intraluminal foreign body from stomach and small intestine without incision
98.04  Removal of intraluminal foreign body from large intestine without incision
98.05  Removal of intraluminal foreign body from rectum and anus without incision

98.1  Removal of intraluminal foreign body from other sites without incision

Excludes: removal of therapeutic device (97.31-97.49, 97.61-97.89)

98.11  Removal of intraluminal foreign body from ear without incision
98.12  Removal of intraluminal foreign body from nose without incision
98.13  Removal of intraluminal foreign body from pharynx without incision
98.14  Removal of intraluminal foreign body from larynx without incision
98.15  Removal of intraluminal foreign body from trachea and bronchus without incision

Excludes: Endoscopic removal of bronchial device(s) or substances (33.78)

98.16  Removal of intraluminal foreign body from uterus without incision

Excludes: removal of intrauterine contraceptive device (97.71)

98.17  Removal of intraluminal foreign body from vagina without incision
98.18  Removal of intraluminal foreign body from artificial stoma without incision
98.19  Removal of intraluminal foreign body from urethra without incision

98.2  Removal of other foreign body without incision

Excludes: removal of intraluminal foreign body (98.01-98.19)

98.20  Removal of foreign body, not otherwise specified
98.21  Removal of superficial foreign body from eye without incision
98.22  Removal of other foreign body without incision from head and neck

Removal of embedded foreign body from eyelid or conjunctiva without incision

98.23  Removal of foreign body from vulva without incision
98.24  Removal of foreign body from scrotum or penis without incision
98.25  Removal of other foreign body without incision from trunk except scrotum, penis, or vulva
98.26  Removal of foreign body from hand without incision
98.27  Removal of foreign body without incision from upper limb, except hand
98.28  Removal of foreign body from foot without incision
98.29 Removal of foreign body without incision from lower limb, except foot

98.5 Extracorporeal shockwave lithotripsy [ESWL]
  Lithotriptor tank procedure
  Disintegration of stones by extracorporeal induced shockwaves
  That with insertion of stent
  98.51 Extracorporeal shockwave lithotripsy [ESWL] of the kidney, ureter and/or bladder
  98.52 Extracorporeal shockwave lithotripsy [ESWL] of the gallbladder and/or bile duct
  98.59 Extracorporeal shockwave lithotripsy of other sites

99 Other nonoperative procedures

99.0 Transfusion of blood and blood components
  Use additional code for that done via catheter or cutdown (38.92-38.94)
  99.00 Perioperative autologous transfusion of whole blood or blood components
    Intraoperative blood collection
    Postoperative blood collection
    Salvage
  99.01 Exchange transfusion
    Transfusion:
    - exsanguination
    - replacement
  99.02 Transfusion of previously collected autologous blood
    Blood component
  99.03 Other transfusion of whole blood
    Transfusion:
    - blood NOS
    - hemodilution NOS
  99.04 Transfusion of packed cells
  99.05 Transfusion of platelets
    Transfusion of thrombocytes
  99.06 Transfusion of coagulation factors
    Transfusion of antihemophilic factor
  99.07 Transfusion of other serum
    Transfusion of plasma
    Excludes: injection [transfusion] of:
    - antivenin (99.16)
    - gamma globulin (99.14)
  99.08 Transfusion of blood expander
    Transfusion of Dextran
99.09 Transfusion of other substance
Transfusion of:
- blood surrogate
- granulocytes

*Excludes: transplantation [transfusion] of bone marrow (41.0)*

99.1 Injection or infusion of therapeutic or prophylactic substance
Includes: injection or infusion given:
- hypodermically acting locally or systemically
- intramuscularly acting locally or systemically
- intravenously acting locally or systemically

99.10 Injection or infusion of thrombolytic agent
- Alteplase
- Anistreplase
- Reteplase
- Streptokinase
- Tenecteplase
- Tissue plasminogen activator (TPA)
- Urokinase

*Excludes: aspirin --omit code
- GP IIb/IIIa platelet inhibitor (99.20)
- heparin (99.19)
- SuperSaturated oxygen therapy (00.49)
- warfarin --omit code*  

99.11 Injection of Rh immune globulin
Injection of:
- Anti-D (Rhesus) globulin
- RhoGAM

99.12 Immunization for allergy
Desensitization

99.13 Immunization for autoimmune disease

99.14 Injection or infusion of gamma globulin
Injection of immune sera

99.15 Parenteral infusion of concentrated nutritional substances
- Hyperalimentation
- Total parenteral nutrition [TPN]
- Peripheral parenteral nutrition [PPN]

99.16 Injection of antidote
Injection of:
- antivenin
- heavy metal antagonist

99.17 Injection of insulin

99.18 Injection or infusion of electrolytes

99.19 Injection of anticoagulant

*Excludes: infusion of drotrecogin alfa (activated) (00.11)*
99.2 Injection or infusion of other therapeutic or prophylactic substance

Includes: injection or infusion given:
- hypodermically acting locally or systemically
- intramuscularly acting locally or systemically
- intravenously acting locally or systemically

Use additional code for:
- injection (into):
  - breast (85.92)
  - bursa (82.94, 83.96)
  - intraperitoneal (cavity) (54.97)
  - intrathecal (03.92)
  - joint (76.96, 81.92)
  - kidney (55.96)
  - liver (50.94)
  - orbit (16.91)
  - other sites --see Alphabetic Index

- perfusion:
  - NOS (39.97)
  - intestine (46.95, 46.96)
  - kidney (55.95)
  - liver (50.93)
  - total body (39.96)

Excludes: SuperSaturated oxygen therapy (00.49)

99.20 Injection or infusion of platelet inhibitor
- Glycoprotein IIB/IIIa inhibitor
- GP IIB/IIIa inhibitor
- GP IIB- IIIa inhibitor

Excludes: infusion of heparin (99.19)
  injection or infusion of thrombolytic agent (99.10)

99.21 Injection of antibiotic

Excludes: injection or infusion of oxazolidinone class of antibiotics (00.14)

99.22 Injection of other anti- infective

Excludes: injection or infusion of oxazolidinone class of antibiotics (00.14)

99.23 Injection of steroid
- Injection of cortisone
- Subdermal implantation of progesterone

99.24 Injection of other hormone
99.25 Injection or infusion of cancer chemotherapeutic substance
Chemoembolization
Injection or infusion of antineoplastic agent
Use additional code for disruption of blood brain barrier, if performed [BBBD] (00.19)

Excludes: immunotherapy, antineoplastic (00.15, 99.28)
implantation of chemotherapeutic agent (00.10)
injection of radioisotope (92.28)
injection or infusion of biological response modifier [BRM] as an antineoplastic agent (99.28)
intravenous infusion of clofarabine (17.70)

99.26 Injection of tranquilizer

99.27 Iontophoresis

99.28 Injection or infusion of biological response modifier [BRM] as an antineoplastic agent
Low-dose interleukin-2 (IL-2) therapy
Infusion of cintredekin besudotox
Immunotherapy, antineoplastic
Interleukin therapy
Tumor vaccine

Excludes: high-dose infusion interleukin-2 [IL-2] (00.15)

99.29 Injection or infusion of other therapeutic or prophylactic substance

Excludes: administration of neuroprotective agent (99.75)
immunization (99.31-99.59)
injection of sclerosing agent into:
esophageal varices (42.33)
hemorrhoids (49.42)
veins (39.92)
injection or infusion of human B-type natriuretic peptide (hBNP) (00.13)
injection or infusion of nesiritide (00.13)
injection or infusion of platelet inhibitor (99.20)
injection or infusion of thrombolytic agent (99.10)
infusion of blood brain barrier disruption substance (00.19)

99.3 Prophylactic vaccination and inoculation against certain bacterial diseases

99.31 Vaccination against cholera

99.32 Vaccination against typhoid and paratyphoid fever
Administration of TAB vaccine

99.33 Vaccination against tuberculosis
Administration of BCG vaccine

99.34 Vaccination against plague

99.35 Vaccination against tularemia

99.36 Administration of diphtheria toxoid

Excludes: administration of:
diphtheria antitoxin (99.58)
diphtheria-tetanus-pertussis, combined (99.39)
99.37  Vaccination against pertussis
   Excludes: administration of diphtheria tetanus-pertussis, combined (99.39)

99.38  Administration of tetanus toxoid
   Excludes: administration of:
   diphtheria-tetanus-pertussis, combined (99.39)
   tetanus antitoxin (99.56)

99.39  Administration of diphtheria-tetanus-pertussis, combined

99.4  Prophylactic vaccination and inoculation against certain viral diseases

99.41  Administration of poliomyelitis vaccine

99.42  Vaccination against smallpox

99.43  Vaccination against yellow fever

99.44  Vaccination against rabies

99.45  Vaccination against measles
   Excludes: administration of measles-mumps rubella vaccine (99.48)

99.46  Vaccination against mumps
   Excludes: administration of measles-mumps rubella vaccine (99.48)

99.47  Vaccination against rubella
   Excludes: administration of measles-mumps rubella vaccine (99.48)

99.48  Administration of measles-mumps-rubella vaccine

99.5  Other vaccination and inoculation

99.51  Prophylactic vaccination against the common cold

99.52  Prophylactic vaccination against influenza

99.53  Prophylactic vaccination against arthropod-borne viral encephalitis

99.54  Prophylactic vaccination against other arthropod-borne viral diseases

99.55  Prophylactic administration of vaccine against other diseases
   Vaccination against:
   anthrax
   brucellosis
   Rocky Mountain spotted fever
   Staphylococcus
   Streptococcus
   typhus

99.56  Administration of tetanus antitoxin

99.57  Administration of botulism antitoxin

99.58  Administration of other antitoxins
   Administration of:
   diphtheria antitoxin
   gas gangrene antitoxin
   scarlet fever antitoxin
99.59 Other vaccination and inoculation
Vaccination NOS

Excludes: injection of:
  gamma globulin (99.14)
  Rh immune globulin (99.11)
immunization for:
  allergy (99.12)
  autoimmune disease (99.13)

99.6 Conversion of cardiac rhythm

Excludes: open chest cardiac:
  electric stimulation (37.91)
  massage (37.91)

99.60 Cardiopulmonary resuscitation, not otherwise specified

99.61 Atrial cardioversion

99.62 Other electric countershock of heart
Cardioversion:
  NOS
  external
  Conversion to sinus rhythm
  Defibrillation
  External electrode stimulation

99.63 Closed chest cardiac massage
Cardiac massage NOS
Manual external cardiac massage

99.64 Carotid sinus stimulation

99.69 Other conversion of cardiac rhythm

99.7 Therapeutic apheresis or other injection, administration, or infusion of other therapeutic or prophylactic substance

99.71 Therapeutic plasmapheresis

Excludes: extracorporeal immunoadsorption [ECI] 99.76

99.72 Therapeutic leukopheresis
Therapeutic leukocytapheresis

99.73 Therapeutic erythrocytapheresis
Therapeutic erythropheresis

99.74 Therapeutic plateletpheresis

99.75 Administration of neuroprotective agent

99.76 Extracorporeal immunoadsorption
Removal of antibodies from plasma with protein A columns

99.77 Application or administration of adhesion barrier substance

99.78 Aquapheresis
Plasma water removal
Ultrafiltration [for water removal]

Excludes: hemodiafiltration (39.95)
  hemodialysis (39.95)
  therapeutic plasmapheresis (99.71)
99.79 Other
Apheresis (harvest) of stem cells

99.8 Miscellaneous physical procedures

99.81 Hypothermia (central) (local)
Excludes: gastric cooling (96.31)
            gastric freezing (96.32)
            that incidental to open heart surgery (39.62)

99.82 Ultraviolet light therapy
Actinotherapy

99.83 Other phototherapy
Phototherapy of the newborn
Excludes: extracorporeal photochemotherapy (99.88)
            photocoagulation of retinal lesion (14.23-14.25,

99.84 Isolation
Isolation after contact with infectious disease
Protection of individual from his surroundings
Protection of surroundings from individual

99.85 Hyperthermia for treatment of cancer
Hyperthermia (adjunct therapy) induced by microwave, ultrasound,
low energy radio frequency, probes (interstitial), or other means
in the treatment of cancer
Code also any concurrent chemotherapy or radiation therapy

99.86 Non-invasive placement of bone growth stimulator
Transcutaneous (surface) placement of pads or patches for
stimulation to aid bone healing
Excludes: insertion of invasive or semi invasive bone growth
stimulators (device) (percutaneous electrodes)
(78.90-78.99)

99.88 Therapeutic photopheresis
Extracorporeal photochemotherapy
Extracorporeal photopheresis
Excludes: other phototherapy (99.83)
            ultraviolet light therapy (99.82)

99.9 Other miscellaneous procedures

99.91 Acupuncture for anesthesia

99.92 Other acupuncture
Excludes: that with smouldering mox (93.35)

99.93 Rectal massage (for levator spasm)

99.94 Prostatic massage

99.95 Stretching of foreskin

99.96 Collection of sperm for artificial insemination

99.97 Fitting of denture

99.98 Extraction of milk from lactating breast

99.99 Other
Leech therapy
Index to Procedures
Abbe operation
construction of vagina 70.61
with graft or prosthesis 70.63
intestinal anastomosis—see Anastomosis, intestine
Abciximab, infusion 99.20
Abdominocentesis 54.91
Abdominohysterectomy 68.49
laparoscopic 68.41
Abdominoplasty 86.83
Abdominoscopy 54.21
Abdominouterotomy 68.0
obstetrical 74.99
Abduction, arytenoid 31.69
AbioCor® total replacement heart 37.52
Ablation
biliary tract (lesion) by ERCP 51.64
endometrial (hysteroscopic) 68.23
inner ear (cryosurgery) (ultrasound) 20.79
by injection 20.72
lesion
esophagus 42.39
endoscopic 42.33
heart
by peripherally inserted catheter 37.34
endovascular approach 37.34
maze procedure (Cox-maze) 37.34
open (trans-thoracic) approach 37.33
trans-thoracic approach 37.33
intestine
large 45.49
endoscopic 45.43
large intestine 45.49
endoscopic 45.43
liver 50.26
laparoscopic 50.25
open 50.23
percutaneous 50.24
lung 32.26
open 32.23
percutaneous 32.24
thoracoscopic 32.25
renal 55.35
laparoscopic 55.34
open 55.32
percutaneous 55.33
pituitary 07.69
by
Cobalt- 60 92.32
implantation (strontium-yttrium) (Y) NEC 07.68
transfrontal approach 07.64
transphenoidal approach 07.65
proton beam (Bragg peak) 92.33
Ablation—Cont.
prostate
by
cryoablation 60.62
laser, transurethral 60.21
radical cryosurgical ablation (RCSA) 60.21
radiofrequency thermotherapy 60.97
transurethral needle ablation (TUNA) 60.97
pleural 34.6
thoracoscopic 32.25
Ablation
intra-amniotic injection (saline) 75.0
Ablation
nerve—see Ablation, lesion, nerve
Bone—see Ablation, lesion, bone
brain—see Ablation, lesion, brain
renal—see Ablation, lesion, renal
Ablation
Abortion, therapeutic 69.51
by
aspiration curettage 69.51
dilation and curettage 69.01
hysterectomy—see Hysterectomy
hysterotomy 74.91
insertion
laminaria 69.93
prostaglandin suppository 96.49
intra-amniotic injection (saline) 75.0
Abrasion
corneal epithelium 11.41
for smear or culture 11.21
epicardial surface 36.39
pleural 34.6
skin 86.25
Abscission, cornea 11.49
Absorptiometry photon (dual) (single) 88.98
Aburel operation (intra-amniotic injection for abortion) 75.0
Accouchement forcé 73.99
Acetabuloplasty NEC 81.40
Acetabuloplasty
with prosthetic implant 81.52
Achillorrhaphy 83.64
delayed 83.62
Achillotenotomy 83.11
plastic 83.85
Achillotomy 83.11
plastic 83.85
Acid peel, skin 86.24
Acromioplasty 77.81
Acromioplasty 81.83
for recurrent dislocation of shoulder 81.82
partial replacement 81.81
total replacement 81.80
Actinotherapy 99.82
Activities of daily living (ADL)
therapy 93.83
training for the blind 93.78
Acupuncture 99.92
  with smouldering moxa 93.35
  for anesthesia 99.91

Adams operation
  advancement of round ligament 69.22
  crushing of nasal septum 21.88
  excision of palmar fascia 82.35

Adenectomy -- see also Excision, by site
  prostate NEC 60.69
  retropubic 60.4

Adenoidecctomy (without tonsillectomy) 28.6
  with tonsillectomy 28.3

Adhesiolysis -- see also Lysis, adhesions
  for collapse of lung 33.39
  middle ear 20.23

Adipectomy 86.83

Adjustment
  cardiac pacemaker program
    (reprogramming) -- omit code
  cochlear prosthetic device (external components)
    95.49
  dental 99.97
  gastric restrictive device (laparoscopic)
    44.98
  occlusal 24.8
  orthopedic device (noninvasive)
    external fixator -- omit code
  spectacles 95.31

Administration (of) -- see also Injection
  Activase® 99.10
  adhesion barrier substance 99.77
  Alteplase (tPA, generic) 99.10
  Anistreplase (tPA, generic) 99.10
  antitoxins NEC 99.58
    botulism 99.57
    diphtheria 99.58
    gas gangrene 99.58
    scarlet fever 99.58
    tetanus 99.56
  Bender Visual-Motor Gestalt test 94.02
  Benton Visual Retention test 94.02
  DrotAA 00.11
  Eminase® 99.10
  inhaled nitric oxide 00.12
  intelligence test or scale (Stanford-Binet)
    (Wechsler) (adult) (children) 94.01
    Minnesota Multiphasic Personality Inventory (MMPI) 94.02
    MMPI (Minnesota Multiphasic Personality Inventory) 94.02
  neuroprotective agent 99.75
  Proleukin® (low-dose) 99.28
  psychologic test 94.02
  Retavase® 99.10
  Tenecteplase (tPA, generci) 99.10
  TNKase™ 99.10
  toxoid
    diphtheria 99.36
    with tetanus and pertussis, combined (DTP) 99.39
    tetanus 99.38
    with diphtheria and pertussis, combined (DTP) 99.39
  vaccine -- see also Vaccination
    BCG 99.33
    measles-mumps-rubella (MMR) 99.48
    poliomyelitis 99.41
    TAB 99.32
    Wechsler
      Intelligence Scale (adult) (children) 94.01
      Memory Scale 94.02
  Xigris® 00.11

Adrenalectomy (unilateral) 07.22
  with partial removal of remaining gland 07.29
  bilateral 07.3
    partial 07.29
    subtotal 07.29
  complete 07.3
  partial NEC 07.29
  remaining gland 07.3
  subtotal NEC 07.29
  total 07.3

Adrenorrhaphy 07.44

Adrenalotomy (with drainage) 07.41

Advancement
  extraocular muscle 15.12
  multiple (with resection or recession) 15.3
  eyelid muscle 08.59
  eye muscle 15.12
  multiple (with resection or recession) 15.3
  graft -- see Graft
    leaflet (heart) 35.10
    pedicle (flap) 86.72
  profundus tendon (Wagner) 82.51
  round ligament 69.22
  tendon 83.71
    hand 82.51
    profundus (Wagner) 82.51
    Wagner (profundus tendon) 82.51

AESOP® (Automated Endoscopic System for Optimal Positioning) -- see category 17.4

Albee operation
  bone peg, femoral neck 78.05
  graft for slipping patella 78.06
  sliding inlay graft, tibia 78.07

Albert operation (arthrodesis of knee) 81.22

Aldridge (-Studdiford) operation
  (urethral sling) 59.5
Alexander operation  
prostatectomy 60.62
perineal 60.62
suprapubic 60.3
shortening of round ligaments 69.22

Alexander-Adams operation (shortening of round ligaments) 69.22

Alimentation, parenteral 99.29

Allograft --see Graft

Almoor operation (extrapetrosal drainage) 20.22

Altemeier operation (perineal rectal pull-through) 48.49

Alveolotomy (apical) 24.0

Alveolotomy (with graft or implant) 24.5

Alveoloplasty 24.5

Ambulatory cardiac monitoring (ACM) 89.50

Ammon operation (dacryocystotomy) 09.53

Amniocentesis 75.11

Amnioinfusion 75.37

Amniotomy, internal 75.31

Amniotomy 73.09

to induce labor 73.01

Amputation (cineplastic) (closed flap)
(guillotine) (kineplastic) (open) 84.91
abdominopelvic 84.19
above-elbow 84.07
above-knee (AK) 84.17
ankle (disarticulation) 84.13
through malleoli of tibia & fibula 84.14
arm NEC 84.00
through
carpals 84.03
elbow (disarticulation) 84.06
forearm 84.05
humerus 84.07
shoulder (disarticulation) 84.08
wrist (disarticulation) 84.04
upper 84.07

Batch-Spittler-McFaddin(knee disarticulation) 84.16

below-knee (BK) NEC 84.15
conversion into above-knee amputation 84.17

Boyd (hip disarticulation) 84.18

Callander's (knee disarticulation) 84.16
carpals 84.03
cervix 67.4
Chopart's (midtarsal) 84.12
clitoris 71.4

Dieffenbach (hip disarticulation) 84.18
Dupuytren's(shoulder disarticulation) 84.08
ear, external 18.39
elbow (disarticulation) 84.06

Amputation---Cont.

finger, except thumb 84.01
thumb 84.02
foot (middle) 84.12
forearm 84.05
forefoot 84.12
forequarter 84.09

Gordon-Taylor (hindquarter) 84.19

Guyon (ankle) 84.13

hallux 84.11

hand 84.03

Hey's (foot) 84.12

hindquarter 84.19

hip (disarticulation) 84.18

humerus 84.07

interscapulothoracic 84.09

interthoracoascapular 84.09

Kirk (thigh) 84.17

knee (disarticulation) 84.16

Kutler (revision of current traumatic amputation of finger) 84.01

Larry (shoulder disarticulation) 84.08

leg NEC 84.10

above knee (AK) 84.17

below knee (BK) 84.15

through
ankle (disarticulation) 84.13
ipsilateral 84.17

foot 84.12

hip (disarticulation) 84.18

tibia and fibula (BK) 84.15

Lisfranc

foot 84.12

shoulder (disarticulation) 84.08

Littledwood (forequarter) 84.09

lower limb NEC

--see also Amputation, leg 84.10

Mazet (knee disarticulation) 84.16

metacarpal 84.03

metatarsal 84.11

head (bunionectomy) 77.59

metatarsophalangeal (joint) 84.11

midtarsal 84.12

nose 21.4

penis (circle) (complete) (flap) (partial) (radical) 64.3

Pirogoff's (ankle amputation through malleoli of tibia and fibula) 84.14

ray

finger 84.01

foot 84.11

toe (metatarsal head) 84.11

root (tooth) (apex) 23.73

with root canal therapy 23.72

shoulder (disarticulation) 84.08

Sorondo-Ferre (hindquarter) 84.19

S. P. Rogers (knee disarticulation) 84.16

277
Amputation--Cont.
supracondyler, above-knee 84.17
supramalleolar, foot 84.14
Syme's (ankle amputation through malleoli of tibia and fibula) 84.14
thigh 84.17
thumb 84.02
toe (through metatarsophalangeal joint) 84.11
transcarpal 84.03
transmetatarsal 84.12
upper limb NEC--see also Amputation, arm 84.00
wrist (disarticulation) 84.04

Amygdalohippocampotomy 01.39
Amygdalotomy 01.39
Analysis
cardiac rhythm device (CRT-D) (CRT-P) (AICD) (pacemaker) - see Interrogation character 94.03
gastric 89.39
psychologic 94.31
transactional group 94.44
individual 94.39

Anastomosis
abdominal artery to coronary artery 36.17
accessory-facial nerve 04.72
accessory-hypoglossal nerve 04.73
anus (with formation of endorectal ileal pouch) 45.95
aorta (descending)-pulmonary(artery) 39.0
aorta-renal artery 39.24
aorta-subclavian artery 39.22
aortoceliac 39.26
aorto(ilio)femoral 39.25
aortomesenteric 39.26
appendix 47.99
arteriovenous NEC 39.29
for renal dialysis 39.27
artery (suture of distal to proximal end) 39.31
with bypass graft 39.29
extracranial-intracranial[EC- IC] 39.28
excision or resection of vessel --see Arteriotomy, with anastomosis, by site revision 39.49
bile ducts 51.39
bladder NEC 57.88
with isolated segment of intestine 57.87 [45.50]
colon (sigmoid) 57.87 [45.52]
ileum 57.87 [45.51]
open loop of ileum 57.87 [45.51]
to intestine 57.88
ileum 57.87 [45.51]

Anastomosis--Cont.
bowel--see also Anastomosis, intestine 45.90
bronchotracheal 33.48
bronchus 33.48
carotid-subclavian artery 39.22
caval-mesenteric vein 39.1
caval-pulmonary artery 39.21
cervicoesophageal 42.59
colohypopharyngeal (intrathoracic) 42.55
antesternal or antethoracic 42.65
common bile duct 51.39
common pulmonary trunk and left atrium (posterior wall) 35.82
cystic bile duct 51.39
cystocolic 57.88
epididymis to vas deferens 63.83
esophagocolic (intrathoracic) NEC 42.56
with interposition 42.55
antesternal or antethoracic NEC 42.66
with interposition 42.65
esopagocologastric (intrathoracic) NEC 42.55
antesternal or antethoracic NEC 42.65
esophagoduodenal(intrathoracic) NEC 42.54
with interposition 42.53
esopagointestinal (intrathoracic) NEC --see also Anastomosis, esophagus, to intestinal segment 42.54
antesternal or antethoracic NEC --see also Anastomosis, esophagus, antesternal, to intestinal segment 42.64
esopagoesophageal (intrathoracic) NEC 42.51
antesternal or antethoracic NEC 42.61
esopagogastric (intrathoracic) NEC 42.52
antesternal or antethoracic NEC 42.62
esopagus (intrapleural) (intrathoracic) (retrosternal) NEC 42.59
with gastrectomy (partial) 43.5
complete or total 43.99
interposition (of) NEC 42.58
colon 42.55
jejunal loop 42.63
small bowel 42.63
rubber tube 42.68
to intestinal segment NEC 42.64
with interposition 42.68
colon NEC 42.66
with interposition 42.65
small bowel NEC 42.64
with interposition 42.63
to intestinal segment(intrathoracic) NEC 42.54
with interposition 42.58
Anastomosis—Cont.

antesternal or antethoracic NEC 42.64
with interposition 42.68
colon (intrathoracic) NEC 42.56
with interposition 42.55
antesternal or antethoracic 42.66
with interposition 42.65
small bowel NEC 42.54
with interposition 42.53
antesternal or antethoracic 42.64
with interposition 42.63

facial- accessory nerve 04.72
facial- hypoglossal nerve 04.71
fallopian tube 66.73
by reanastomosis 66.79
gallbladder 51.35

hepatic ducts 51.31
intestine 51.32
pancreas 51.33
stomach 51.34

gastroepiploic artery to coronary artery 36.17
hepatic duct 51.39
hypoglossal- accessory nerve 04.73
hypoglossal- facial nerve 04.71
ileal loop to bladder 57.87 (45.51)
ileal loop 45.95
ileocolic 45.93
inferior vena cava and portal vein 39.1

internal mammary artery (to)
coronary artery (single vessel) 36.15
double vessel 36.16
myocardium 36.2

intestine 45.90
large- to- anus 45.95
large- to- large 45.94
large- to- rectum 45.94
large- to- small 45.93
small- to- anus 45.95
small- to- large 45.93
small- to- rectal stump 45.92

small- to- small 45.91

intrathoracic NEC 39.23
kidney (pelvis) 55.86
lacrimal sac to conjunctiva 09.82
left- to- right (systemic- pulmonary artery) 39.0

lymphatic (channel) (peripheral) 40.9
mesenteric- caval 39.1
mesocolon 39.1
nasolacrimal 09.81

nerve (cranial) (peripheral) NEC 04.74
accessory- facial 04.72
accessory- hypoglossal 04.73
hypoglossal- facial 04.71

Anastomosis—Cont.

pancreas (duct) (to) 52.96
bile duct 51.39
gall bladder 51.33
intestine 52.96
jejenum 52.96
stomach 52.96
pleurothecal (with valve) 03.79
portacaval 39.1
portal vein to inferior vena cava 39.1
pulmonary- aortic (Pott's) 39.0
pulmonary artery and superior vena cava 39.21

pulmonary- innominate artery (Blalock) 39.0

pulmonary- subclavian artery (Blalock- Taussig) 39.0
pulmonary vein and azygos vein 39.23
pyeloileocutaneous 56.51
pyeloureterovesical 55.86
radial artery 36.19
rectum, rectal NEC 48.74
stump to small intestine 45.92
renal (pelvis) 55.86
vein and splenic vein 39.1
renopelvic 39.1
salpingothecal (with valve) 03.79
splenic to renal veins 39.1
splenorenal (venous) 39.1
arterial 39.26
subarachnoid- peritoneal (with valve) 03.71

subarachnoid- ureteral (with valve) 03.72
subclavian- aortic 39.22
superior vena cava to pulmonary artery 39.21

systemic- pulmonary artery 39.0
thoracic artery (to)
coronary artery (single) 36.15
double 36.16
myocardium 36.2

ureter (to) NEC 56.79
bladder 56.74
colonic 56.71
ileal pouch (bladder) 56.51
ileum 56.71
intestine 56.71
skin 56.61
ureteropyelocalceal 55.86
ureterocolic 56.71
ureterovesical 56.74
urethra (end-to-end) 58.44
vas deferens 63.82

veins (suture of proximal to distal end)
(with bypass graft) 39.29
with excision or resection of vessel
--see Phlebectomy, with
anastomosis, by site
mesenteric to vena cava 39.1
Anastomosis - veins ---Cont.
  portal to inferior vena cava 39.1
  revision 39.49
  splenic and renal 39.1
  ventricle, ventricular (intracerebral) (with valve) -- see also Shunt, ventricular 02.2
  ventriculoatrial (with valve) 02.32
  ventriculocaval (with valve) 02.32
  ventriculomastoid (with valve) 02.31
  ventriculopleural (with valve) 02.33
  vesicle -- see Anastomosis, bladder

Anderson operation
(tibial lengthening) 78.37

Anel operation (dilation of lacrimal duct) 09.42

Anesthesia
  acupuncture for 99.91
  cryoaanalgesia nerve (cranial) (peripheral) 04.2
  spinal -- omit code

Aneurysmectomy 38.60
  with
  anastomosis 38.30
    abdominal artery 38.36
    vein 38.37
    aorta (arch)(ascending)(descending) 38.34
    head and neck NEC 38.32
    intracranial NEC 38.31
    lower limb
      artery 38.38
      vein 38.39
      thoracic NEC 38.35
    upper limb (artery) (vein) 38.33
    graft replacement (interposition) 38.40
    abdominal aorta
      endovascular approach 39.71
      open approach 38.44
      Zenith® Renu™ AAA graft 39.71
      artery 38.46
      vein 38.47
    aorta (arch)(ascending)(descending) thoracic
      abdominal 38.44
      thoracic 38.45
    thoracoabdominal 38.45 [38.44]
    head and neck NEC 38.42
    intracranial NEC 38.41
    lower limb
      artery 38.48
      vein 38.49
      thoracic NEC 38.45
      upper limb (artery) (vein) 38.43
    abdominal
      artery 38.66
      vein 38.67
      aorta (arch)(ascending)(descending) 38.64

Aneurysmorrhaphy NEC 39.52
  by or with
  anastomosis -- see Aneurysmectomy, with anastomosis, by site
  clipping 39.51
  coagulation 39.52
  electrocoagulation 39.52
  endovascular graft
    abdominal aorta 39.71
    lower extremity artery(s) 39.79
    thoracic aorta 39.73
    upper extremity artery(s) 39.79
  excision or resection -- see also
    Aneurysmectomy, by site
  with
  anastomosis -- see Aneurysmectomy, with anastomosis, by site
  graft replacement -- see Aneurysmectomy, with graft replacement, by site
  filipuncture 39.52
  graft replacement -- see Aneurysmectomy, with graft replacement, by site
  methyl methacrylate 39.52
  suture 39.52
  wiring 39.52
  wrapping 39.52
  Matas' 39.52

Aneurysmotomy -- see Aneurysmectomy

Angiectomy
  with
  anastomosis 38.30
    abdominal artery 38.36
    vein 38.37
    aorta (arch) (ascending) thoracic
      abdominal 38.44
      thoracic 38.45
    thoracoabdominal 38.45 [38.44]
    head and neck NEC 38.42
    intracranial NEC 38.41
    lower limb
      artery 38.48
      vein 38.49
      thoracic NEC 38.45
      upper limb (artery) (vein) 38.43
    abdominal
      artery 38.66
      vein 38.67
      aorta (arch)(ascending)(descending) 38.64
### Angiectomy

*with ---Cont.*

- graft replacement (interposition) 38.40
  - abdominal
  - aorta 38.44
  - artery 38.46
  - vein 38.47
  - aorta (arch) (ascending) (descending thoracic)
  - abdominal 38.44
  - thoracic 38.45
  - thoracoabdominal 38.45 [38.44]
  - head and neck NEC 38.42
  - intracranial NEC 38.41
  - lower limb
  - artery 38.48
  - vein 38.49
  - thoracic vessel NEC 38.45
  - upper limb (artery) (vein) 38.43

### Angiocardiography

- (selective) 88.50
  - carbon dioxide (negative contrast) 88.58
  - combined right and left heart 88.54
  - intra-operative fluorescence vascular 88.59
  - left heart (aortic valve) (atrium) (ventricle) (ventricular outflow tract) 88.53
  - combined with right heart 88.54
  - right heart (atrium) (pulmonary valve) (ventricle) (ventricular outflow tract) 88.52
  - combined with left heart 88.54
  - SPY 88.59
  - vena cava (inferior) (superior) 88.51

### Angiography

- (arterial) --see also
  - Arteriography 88.40
    - by C.A.T. --see Scan, C.A.T., by site
    - by computed tomography --see Scan, C.A.T., by site
    - by radioisotope --see Scan, radioisotope, by site
    - by ultrasound --see Ultrasonography, by site
    - basilar 88.41
    - brachial 88.49
    - carotid (internal) 88.41
    - celiac 88.47
    - cerebral (posterior circulation) 88.41
    - coronary NEC 88.57
    - intra-operative fluorescence vascular 88.59
    - eye (fluorescein) 95.12
    - femoral 88.48
    - heart 88.50
    - intra-abdominal NEC 88.47
    - intracranial 88.41
    - intrathoracic vessels NEC 88.44
    - lower extremity NEC 88.48
    - neck 88.41
    - placenta 88.46

### Angiography

- (arterial) --see also
  - Arteriography 88.40
    - by C.A.T. --see Scan, C.A.T., by site
    - by computed tomography --see Scan, C.A.T., by site
    - by radioisotope --see Scan, radioisotope, by site
    - by ultrasound --see Ultrasonography, by site
    - basilar 88.41
    - brachial 88.49
    - carotid (internal) 88.41
    - celiac 88.47
    - cerebral (posterior circulation) 88.41
    - coronary NEC 88.57
    - intra-operative fluorescence vascular 88.59
    - eye (fluorescein) 95.12
    - femoral 88.48
    - heart 88.50
    - intra-abdominal NEC 88.47
    - intracranial 88.41
    - intrathoracic vessels NEC 88.44
    - lower extremity NEC 88.48
    - neck 88.41
    - placenta 88.46

### Angiography

- (venous) --see also
  - Phlebography
  - by radioisotope --see Scan, radioisotope, by site
  - by ultrasound --see Ultrasonography, by site

### Angioplasty

- (laser) --see also
  - Repair, blood vessel
  - balloon (percutaneous transluminal) NEC 39.50
    - coronary artery 00.66
    - coronary 36.09
    - open chest approach 36.03
    - percutaneous transluminal (balloon) 00.66
    - percutaneous transluminal (balloon) (single vessel)
    - basilar 00.61
    - carotid 00.61
    - cerebral (intracranial) 00.62
    - cerebrovascular
      - cerebral (intracranial) 00.62
      - precerebral (extracranial) 00.61
      - carotid 00.61
    - coronary (balloon)) 00.66
    - femoropopliteal 39.50
    - iliac 39.50
    - lower extremity NOS 39.50
    - mesenteric 39.50
    - peripheral NEC 39.50
    - precerebral (extracranial) 00.61
    - carotid 00.61
    - renal 39.50
    - subclavian 39.50
    - upper extremity NOS 39.50
    - vertebral 00.61
    - specified site NEC 39.50
    - cerebrovascular
      - cerebral (intracranial) 00.62
      - precerebral (extracranial) 00.61
      - peripheral 39.50

### Angiorrhaphy

- 39.30
  - artery 39.31
  - vein 39.32

### Angioscopy, percutaneous

- 38.22
  - eye (fluorescein) 95.12

### Angiotomy

- 38.00
  - abdominal
    - artery 38.06
    - vein 38.07
  - aorta (arch) (ascending) (descending) 38.04
Angiotomy ---Cont.
  head and neck NEC 38.02
  intracranial NEC 38.01
  lower limb
    artery 38.08
    vein 38.09
    thoracic NEC 38.05
    upper limb (artery) (vein) 38.03

Angiotripsy 39.98

Ankylosis, production of --see Arthrodesis

Annuloplasty
  (heart) (posteromedial) 35.33

Anoplasty 49.79
  with hemorrhoidectomy 49.46

Anoscopy 49.21

Antiembolic filter, vena cava 38.7

Antiphobic treatment 94.39

Antrectomy
  mastoid 20.49
  maxillary 22.39
  radical 22.31
  pyloric 43.6

Antrostomy --see Antrotomy

Antrotomy (exploratory) (nasal sinus) 22.2
  Caldwell-Luc (maxillary sinus) 22.39
    with removal of membrane lining 22.31
    intranasal 22.2
      with external approach (Caldwell-Luc) 22.39
      radical 22.31
    maxillary (simple) 22.2
      with Caldwell-Luc approach 22.39
      with removal of membrane lining 22.31
    external (Caldwell-Luc approach) 22.39
      with removal of membrane lining 22.31
    radical (with removal of membrane lining) 22.31

Antrum window operation
  --see Antrotomy, maxillary

Aorticopulmonary window operation 39.59

Aortogram, aortography (abdominal)
  (retrograde) (selective) (translumbar) 88.42

Aortoplasty (aortic valve) (gusset type) 35.11

Aortotomy 38.04

Apexcardiogram (with ECG lead) 89.57

Apheresis, therapeutic --see category 99.7

Apicectomy
  lung 32.39
    thoracoscopic 32.30
    petrous pyramid 20.59
    tooth (root) 23.73
      with root canal therapy 23.72

Apicoectomy 23.73
  with root canal therapy 23.72

Apicolysis (lung) 33.39

Apicostomy, alveolar 24.0

Aponeurectomy 83.42
  hand 82.33

Aponeurorrhaphy
  -- see also Suture, tendon 83.64
    hand --see also Suture, tendon, hand 82.45

Aponeurotomy 83.13
  hand 82.11

Appendectomy (with drainage) 47.09
  incidental 47.19
  laparoscopic 47.11
  laparoscopic 47.01

Appendicectomy (with drainage) 47.09
  incidental 47.19
  laparoscopic 47.11
  laparoscopic 47.01

Appendicocoecestomy 47.91

Appendicoenterostomy 47.91

Appendicolyis 54.59
  with appendectomy 47.09
  laparoscopic 47.01
  other 47.09
  laparoscopic 54.51

Appendicostomy 47.91
  closure 47.92

Appendicotomy 47.2

Application
  adhesion barrier substance 99.77
  anti-shock trousers 93.58
  arch bars (orthodontic) 24.7
    for immobilization (fracture) 93.55
  barrier substance, adhesion 99.77
  Barton’s tongs (skull) (with synchronous
    skeletal traction) 02.94
  bone growth stimulator (surface)
    (transcutaneous) 99.86
  bone morphogenetic protein (Infuse ™)
    (OP-1™) (recombinant) (rhBMP) 84.52
  Bryant’s traction 93.44
    with reduction of fracture or dislocation
      --see Reduction, fracture and
      Reduction, dislocation
  Buck’s traction 93.46
  caliper tongs (skull) (with synchronous
    skeletal traction) 02.94
  cast (fiberglass) (plaster) (plastic) NEC 93.53
    with reduction of fracture or dislocation
      --see Reduction, fracture and
      Reduction, dislocation
  clip, cerebral aneurysm (Crutchfield)
    (Silverstone) 39.51
  croupette, croup tent 93.94
  crown (artificial) 23.41
### Application---Cont.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crutchfield tongs (skull) (with synchronous skeletal traction)</td>
<td>02.94</td>
</tr>
<tr>
<td>Dunlop's traction</td>
<td>93.44</td>
</tr>
<tr>
<td>with reduction of fracture or dislocation</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>elastic stockings</td>
<td>93.59</td>
</tr>
<tr>
<td>electronic gaiter</td>
<td>93.59</td>
</tr>
<tr>
<td>external fixator device (bone)</td>
<td>78.10</td>
</tr>
<tr>
<td>carpal, metacarpal</td>
<td>78.14</td>
</tr>
<tr>
<td>clavicle</td>
<td>78.11</td>
</tr>
<tr>
<td>computer assisted (dependent)</td>
<td>84.73</td>
</tr>
<tr>
<td>femur</td>
<td>78.15</td>
</tr>
<tr>
<td>fibula</td>
<td>78.17</td>
</tr>
<tr>
<td>humerus</td>
<td>78.12</td>
</tr>
<tr>
<td>hybrid device or system</td>
<td>84.73</td>
</tr>
<tr>
<td>Ilizarov type</td>
<td>84.72</td>
</tr>
<tr>
<td>monoplanar system or device</td>
<td>84.71</td>
</tr>
<tr>
<td>patella</td>
<td>78.16</td>
</tr>
<tr>
<td>pelvic</td>
<td>78.19</td>
</tr>
<tr>
<td>phalanges (foot) (hand)</td>
<td>78.19</td>
</tr>
<tr>
<td>radius</td>
<td>78.13</td>
</tr>
<tr>
<td>ring device or system</td>
<td>84.72</td>
</tr>
<tr>
<td>scapula</td>
<td>78.11</td>
</tr>
<tr>
<td>Sheffield type</td>
<td>84.72</td>
</tr>
<tr>
<td>specified site NEC</td>
<td>78.19</td>
</tr>
<tr>
<td>tarsal, metatarsal</td>
<td>78.18</td>
</tr>
<tr>
<td>thorax (ribs) (sternum)</td>
<td>78.11</td>
</tr>
<tr>
<td>tibia</td>
<td>78.17</td>
</tr>
<tr>
<td>ulna</td>
<td>78.13</td>
</tr>
<tr>
<td>vertebrae</td>
<td>78.19</td>
</tr>
<tr>
<td>forceps, with delivery --see Delivery, forceps graft</td>
<td></td>
</tr>
<tr>
<td>gravity (G-) suit</td>
<td>93.59</td>
</tr>
<tr>
<td>intermittent pressure device</td>
<td>93.59</td>
</tr>
<tr>
<td>Jewett extension brace</td>
<td>93.59</td>
</tr>
<tr>
<td>Jobst pumping unit (reduction of edema)</td>
<td>93.59</td>
</tr>
<tr>
<td>Lyman Smith traction</td>
<td>93.44</td>
</tr>
<tr>
<td>with reduction of fracture or dislocation</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>MAST (military anti-shock trousers)</td>
<td>93.58</td>
</tr>
<tr>
<td>Minerva jacket</td>
<td>93.52</td>
</tr>
<tr>
<td>minifixator device (bone)</td>
<td></td>
</tr>
<tr>
<td>--see category</td>
<td>78.1</td>
</tr>
<tr>
<td>neck support (molded)</td>
<td>93.52</td>
</tr>
<tr>
<td>obturator (orthodontic)</td>
<td>24.7</td>
</tr>
<tr>
<td>orthodontic appliance(obturator)(wiring)</td>
<td>24.7</td>
</tr>
<tr>
<td>pelvic sling</td>
<td>93.44</td>
</tr>
<tr>
<td>with reduction of fracture or dislocation</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>periodontal splint (orthodontic)</td>
<td>24.7</td>
</tr>
<tr>
<td>plaster jacket</td>
<td>93.51</td>
</tr>
<tr>
<td>Minerva</td>
<td>93.52</td>
</tr>
<tr>
<td>Application---Cont. pressure dressing (bandage) (Gibney) (Robert Jones') (Shanz)</td>
<td>93.56</td>
</tr>
<tr>
<td>trousers (anti-shock) (MAST)</td>
<td>93.58</td>
</tr>
<tr>
<td>prosthesis for missing ear</td>
<td>18.71</td>
</tr>
<tr>
<td>Russell's traction</td>
<td>93.44</td>
</tr>
<tr>
<td>with reduction of fracture or dislocation</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>splint, for immobilization (plaster)</td>
<td></td>
</tr>
<tr>
<td>(pneumatic) (tray)</td>
<td>93.54</td>
</tr>
<tr>
<td>with fracture reduction</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>stereotactic head frame</td>
<td>93.59</td>
</tr>
<tr>
<td>strapping (non-traction)</td>
<td>93.59</td>
</tr>
<tr>
<td>substance, adhesion barrier</td>
<td>99.77</td>
</tr>
<tr>
<td>Thomas collar</td>
<td>93.52</td>
</tr>
<tr>
<td>with reduction of fracture or dislocation</td>
<td></td>
</tr>
<tr>
<td>--see Reduction, fracture and Reduction, dislocation</td>
<td></td>
</tr>
<tr>
<td>adhesive tape (skin)</td>
<td>93.46</td>
</tr>
<tr>
<td>boot</td>
<td>93.46</td>
</tr>
<tr>
<td>Bryant's</td>
<td>93.44</td>
</tr>
<tr>
<td>Buck's</td>
<td>93.46</td>
</tr>
<tr>
<td>Cotrel's</td>
<td>93.42</td>
</tr>
<tr>
<td>Dunlop's</td>
<td>93.44</td>
</tr>
<tr>
<td>gallows</td>
<td>93.46</td>
</tr>
<tr>
<td>Lyman Smith</td>
<td>93.44</td>
</tr>
<tr>
<td>Russell's</td>
<td>93.44</td>
</tr>
<tr>
<td>skeletal NEC</td>
<td>93.44</td>
</tr>
<tr>
<td>intermittent</td>
<td>93.43</td>
</tr>
<tr>
<td>skin, limbs</td>
<td>93.46</td>
</tr>
<tr>
<td>spinal NEC</td>
<td>93.42</td>
</tr>
<tr>
<td>with skull device (halo)(caliper)</td>
<td></td>
</tr>
<tr>
<td>(Crutchfield) (Gardner- Wells)</td>
<td></td>
</tr>
<tr>
<td>(Vinke) (tongs)</td>
<td>93.41</td>
</tr>
<tr>
<td>with synchronous insertion</td>
<td>02.94</td>
</tr>
<tr>
<td>Thomas' splint</td>
<td>93.45</td>
</tr>
<tr>
<td>Unna's paste boot</td>
<td>93.53</td>
</tr>
<tr>
<td>vasopneumatic device</td>
<td>93.58</td>
</tr>
<tr>
<td>Velpeau dressing</td>
<td>93.59</td>
</tr>
<tr>
<td>Vinke tongs (skull) (with synchronous skeletal traction)</td>
<td>02.94</td>
</tr>
<tr>
<td>wound dressing NEC</td>
<td>93.57</td>
</tr>
<tr>
<td>Aquapheresis</td>
<td>99.78</td>
</tr>
<tr>
<td>Arc lamp</td>
<td></td>
</tr>
<tr>
<td>--see Photocoagulation</td>
<td></td>
</tr>
<tr>
<td>Arcuplasty</td>
<td>81.66</td>
</tr>
<tr>
<td>Arrest</td>
<td></td>
</tr>
<tr>
<td>bone growth (epiphyseal)</td>
<td>78.20</td>
</tr>
<tr>
<td>by stapling</td>
<td></td>
</tr>
<tr>
<td>--see Stapling, epiphyseal plate</td>
<td>78.25</td>
</tr>
<tr>
<td>femur</td>
<td>78.25</td>
</tr>
<tr>
<td>fibula</td>
<td>78.27</td>
</tr>
<tr>
<td>humerus</td>
<td>78.22</td>
</tr>
<tr>
<td>radius</td>
<td>78.23</td>
</tr>
</tbody>
</table>
Arrest - bone growth --Cont.
  tibia 78.27
  ulna 78.23
  cardiac, induced (anoxic)(circulatory) 39.63
circulatory, induced (anoxic) 39.63
hemorrhage --see Control, hemorrhage

Arslan operation [fenestration of inner ear] 20.61

Arterectomy 38.60
with
  anastomosis 38.30
  abdominal 38.36
  aorta (arch) (ascending)
    (descending) 38.34
  head and neck NEC 38.32
  intracranial NEC 38.31
  lower limb 38.38
  thoracic NEC 38.35
  upper limb 38.33
graft replacement (interposition) 38.40
  abdominal
    aorta 38.44
  aorta (arch) (ascending)
    (descending thoracic)
    (thoracic)
    abdominal 38.44
    thoracic 38.45
  thoracoabdominal 38.45 [38.44]
  head and neck NEC 38.42
  intracranial NEC 38.41
  lower limb 38.48
  thoracic NEC 38.45
  upper limb 38.43
abdominal 38.66
  aorta (arch) (ascending)(descending) 38.64
  head and neck NEC 38.62
  intracranial NEC 38.61
  lower- limb 38.68
  thoracic NEC 38.65
  upper limb 38.63

Arteriography (contrast) (fluoroscopic)
(retrograde) 88.40
by
  radioisotope --see Scan, radioisotope
  ultrasound (Doppler)
  --see Ultrasonography, by site
  aorta (arch) (ascending) (descending) 88.42
  basilar 88.41
  brachial 88.49
  carotid (internal) 88.41
  cerebral (posterior circulation) 88.41
  coronary (direct) (selective) NEC 88.57
  double catheter technique (Judkins)
    (Ricketts and Abrams) 88.56
  intra-operative fluorescence vascular 88.59
  single catheter technique (Sones) 88.55
  Doppler (ultrasonic) --see
    Ultrasonography, by site

Arteriography --Cont.
  femoral 88.48
  head and neck 88.41
  intra- abdominal NEC 88.47
  intrathoracic NEC 88.44
  lower extremity 88.48
  placenta 88.46
  pulmonary 88.43
  SPY 88.59
  radioisotope --see Scan, radioisotope
  renal 88.45
  specified site NEC 88.49
  superior mesenteric artery 88.47
  transfemoral 88.48
  ultrasound --see Ultrasonography, by site
  upper extremity 88.49

Arterioplasting --see Repair, artery

Arteriorrhaphy 39.31

Arteriotomy 38.00
  abdominal 38.06
  aorta (arch) (ascending) (descending) 38.04
  head and neck NEC 38.02
  intracranial NEC 38.01
  lower limb 38.08
  thoracic NEC 38.05
  upper limb 38.03

Arteriovenostomy 39.29
  for renal dialysis 39.27

Arthrectomy 80.90
  ankle 80.97
  elbow 80.92
  foot and toe 80.98
  hand and finger 80.94
  hip 80.95
  intervertebral disc --see category 80.5
  knee 80.96
  semilunar cartilage 80.6
  shoulder 80.91
  specified site NEC 80.99
  spine NEC 80.99
  wrist 80.93

Arthrocentesis 81.91
  for arthrography --see Arthrogram

Arthrodesis (compression) (extra-articular)
  (intra- articular) (with bone graft) (with
  fixation device) 81.20
  ankle 81.11
  carporadial 81.25
  cricoarytenoid 81.69
  elbow 81.24
  finger 81.28
  foot NEC 81.17
  hip 81.21
  interphalangeal
    finger 81.28
    toe NEC 77.58
    claw toe repair 77.57
    hammer toe repair 77.56
  ischiofemoral 81.21
Arthrodesis --Cont.
  knee 81.22
  lumbosacral, lumbar NEC 81.08
  ALIF (anterior lumbar interbody fusion) 81.06
  anterior (interbody), anterolateral technique 81.06
  lateral transverse process technique 81.07
  PLIF (posterior lumbar interbody fusion) 81.08
  posterior (interbody), posterolateral technique 81.08
  TLIF (transforaminal lumbar interbody fusion) 81.08
  McKeever (metatarsophalangeal) 81.16
  metacarpocarpal 81.26
  metacarpophalangeal 81.27
  metatarsophalangeal 81.16
  midtarsal 81.14
  pantalar 81.11
  sacroiliac 81.08
  shoulder 81.23
  specified joint NEC 81.29
  spinal --see also Fusion, spinal 81.00
  subtalar 81.13
  tarsometatarsal 81.15
  tibiotalar 81.11
  toe NEC 77.58
  claw toe repair 77.57
  hammer toe repair 77.56
  triple 81.12
  wrist 81.26

Arthroendoscopy --see Arthroscopy

Arthroereisis, subtalar joint 81.18

Arthrogram, arthrography 88.32
  temporomandibular 87.13

Arthryalysis 93.26

Arthroplasty (with fixation device) (with traction) 81.96
  ankle 81.49
  carpals 81.75
  with prosthetic implant 81.74
  carpocarpal, carpmetacarpal 81.75
  with prosthetic implant 81.74
  Carroll and Taber (proximal interphalangeal joint) 81.72
  cup (partial hip) 81.52
  Curtis (interphalangeal joint) 81.72
  elbow 81.85
  with prosthetic replacement (partial) (total) 81.84
  femoral head NEC 81.40
  with prosthetic implant 81.52
  finger(s) 81.72
  with prosthetic implant 81.71
  foot (metatarsal) with joint replacement 81.57
  Fowler (metatarsophalangeal joint) 81.72

Arthroplasty --Cont.
  hand (metacarpophalangeal) (interphalangeal) 81.72
  with prosthetic implant 81.71
  hip (with bone graft) 81.40
  cup (partial hip) 81.52
  femoral head NEC 81.40
  with prosthetic implant 81.52
  with total replacement 81.51
  partial replacement 81.52
  total replacement 81.51
  interphalangeal joint 81.72
  with prosthetic implant 81.71
  Kessler (carpometacarpal joint) 81.74
  knee --see also Repair, knee 81.47
  prosthetic replacement (bicompartamental) (hemijoint)
  (partial) (total) (tricompartmental) (unicompartmental) 81.54
  revision 81.85
  metacarpophalangeal joint 81.72
  with prosthetic implant 81.71
  shoulder 81.83
  prosthetic replacement (partial) 81.81
  total 81.80
  for recurrent dislocation 81.82
  temporomandibular 76.5
  toe NEC 77.58
  with prosthetic replacement 81.57
  for hallux valgus repair 77.59
  wrist 81.75
  with prosthetic implant 81.74
  total replacement 81.73

Arthroscopy 80.20
  ankle 80.27
  elbow 80.22
  finger 80.24
  foot 80.28
  hand 80.24
  hip 80.25
  knee 80.26
  shoulder 80.21
  specified site NEC 80.29
  toe 80.28
  wrist 80.23

Arthrostomy --see also Arthroscopy 80.10

Arthroscopy 80.10
  as operative approach --omit code

  with
    arthography --see Arthrogram
    arthroscopy --see Arthroscopy
    injection of drug 81.92
    removal of prosthesis without replacement --see Removal,
      prosthesis, joint structures

  ankle 80.17
  elbow 80.12
  foot and toe 80.18
  hand and finger 80.14
Arthrotomy ---Cont.
- hip 80.15
- knee 80.16
- shoulder 80.11
- specified site NEC 80.19
- spine 80.19
- wrist 80.13

Artificial heart 37.52
AbioCor® 37.52
CardioWest™ (TAH- t) 37.52
insemination 69.92
knee 39.95
rupture of membranes 73.09

Arytenoidectomy 30.29
Arytenoidopexy 31.69
Asai operation (larynx) 31.75

Aspiration
- abscess --see Aspiration, by site
- anterior chamber, eye (therapeutic) 12.91
diagnostic 12.21
- aqueous (eye) (humor) (therapeutic) 12.91
diagnostic 12.21
- ascites 54.91
- Bartholin's gland(cyst)(percutaneous) 71.21
- biopsy --see Biopsy, by site
- bladder (catheter) 57.0
- percutaneous (needle) 57.11
- bone marrow (for biopsy) 41.11
from donor for transplant 41.91
stem cell 99.79
- branchial cleft cyst 29.0
- breast 85.91
- bronchus 96.05
with lavage 96.56
- bursa (percutaneous) 83.94
- hand 82.92
- calculus, bladder 57.0
- cataract 13.3
with phacoemulsification 13.41
phacofragmentation 13.43
posterior route 13.42
- chest 34.91
- cisternal 01.01
- cranial (puncture) 01.09
- craniobuccal pouch 07.72
- craniopharyngioma 07.72
- cul- de- sac (abscess) 70.0
- curettage, uterus 69.59
- after abortion or delivery 69.52
diagnostic 69.59
- to terminate pregnancy 69.51
- cyst --see Aspiration, by site
- diverticulum, pharynx 29.0
endotracheal 96.04
with lavage 96.56
extradural 01.09

Aspiration---Cont.
- eye (anterior chamber) (therapeutic) 12.91
diagnostic 12.21
- fallopian tube 66.91
- fascia 83.95
- hand 82.93
- gallbladder (percutaneous) 51.01
- hematoma --see also Aspiration, by site
- obstetrical 75.92
- incisional 75.91
- hydrocele, tunica vaginalis 61.91
- hygroma --see Aspiration, by site
- hyphema 12.91
- hypophysis 07.72
- intracranial space (epidural) (extradural)
(subarachnoid) (subdural) (ventricular) 01.09
- through previously implanted catheter
or reservoir (Ommaya) (Rickham) 01.02
- joint 81.91
- for arthrography --see Arthrography
- kidney (cyst) (pelvis) (percutaneous)
(therapeutic) 55.92
diagnostic 55.23
- liver (percutaneous) 50.91
- lung (percutaneous) (puncture) (needle)
trocar) 33.93
- middle ear 20.09
- with intubation 20.01
- muscle 83.95
- hand 82.93
- nail 86.01
- nasal sinus 22.00
- by puncture 22.01
- through natural ostium 22.02
- nasotracheal 96.04
- with lavage 96.56
- orbit, diagnostic 16.22
- ovary 65.91
- percutaneous --see Aspiration, by site
- pericardium (wound) 37.0
- pituitary gland 07.72
- pleural cavity 34.91
- prostate (percutaneous) 60.91
- Rathke's pouch 07.72
- seminal vesicles 60.71
- seroma --see Aspiration, by site
- skin 86.01
- soft tissue NEC 83.95
- hand 82.93
- spermatocele 63.91
- spinal (puncture) 03.31
- spleen (cyst) 41.1
- stem cell 99.79
- subarachnoid space (cerebral) 01.09
- subcutaneous tissue 86.01
- subdural space (cerebral) 01.09
Aspiration ---Cont.
- tendon 83.95
- hand 82.93
- testis 62.91
- thymus 07.92
- thoracoscopic 07.95
- thyroid (field) (gland) 06.01
- postoperative 06.02
- trachea 96.04
- with lavage 96.56
- percutaneous 31.99
- tunica vaginalis (hydrocele) (percutaneous) 61.91
- vitreous (and replacement) 14.72
- diagnostic 14.11

Assessment
- fitness to testify 94.11
- mental status 94.11
- nutritional status 89.39
- personality 94.03
- temperament 94.02
- vocational 93.85

Assistance
- cardiac --see also Resuscitation, cardiac
- extracorporeal circulation 39.61
- endotracheal respiratory --see category 96.7
- hepatic, extracorporeal 50.92
- respiratory (endotracheal) (mechanical) --see Ventilation, mechanical 96.7

Asymmetrygram
- --see Scan, radioisotope

Atherectomy
- cerebrovascular --see angioplasty
- coronary --see Angioplasty
- peripheral 39.50

Atriocommissuroplasty (mitral valve) 35.12

Atrioplasty NEC 37.99
- combined with repair of valvular and ventricular septal defects --see Repair, endocardial cushion defect septum (heart) NEC 35.71

Atriocommissuroplasty --see also Repair, atrial septal defect 35.71

Atrioplasty --see also Repair, atrial septal defect 35.71

Atriostectomy (balloon) 35.41

Atriotomy 37.11

Atriocerebroventriculostomy (cerebral- heart) 02.32

Attachment
- abutment (screw) for prosthetic ear device percutaneous 20.99
- eye muscle
  - orbicularis oculi to eyebrow 08.36
  - rectus to frontalis 15.9
- pedicle (flap) graft 86.74
- hand 86.73
- lip 27.57
- mouth 27.57
- pharyngeal flap (for cleft palate repair) 27.62
- secondary or subsequent 27.63
- prosthetic ear device, abutment 20.99
- retina --see Reattachment, retina

Atticoantrostomy (ear) 20.49

Atticoantrotomy (ear) 20.49

Atticotomy (ear) 20.23

Audiometry (Bekesy 5-tone) (impedance)
  - (stapedial reflex response) (subjective) 95.41

Augmentation
- bladder 57.87
- breast --see Mammoplasty, augmentation
- buttock ("fanny- lift") 86.89
- chin 76.68
- genioplasty 76.68
- mammaplasty --see Mammoplasty, augmentation
- outflow tract (pulmonary valve) (gusset type) 35.26
- in total repair of tetralogy of Fallot 35.81
- vocal cord(s) 31.0

Auriculotomy 18.39

Autograft --see Graft

Autologous --see Blood, transfusion

Autopsy 89.8

Autotransfusion (whole blood) 99.02
- --see Blood, transfusion

Autotransplant, autotransplantation
- --see also Reimplantation
- adrenal tissue (heterotopic) (orthotopic) 07.45
- kidney 55.61
- lung --see Transplant, transplantation, lung 33.5
- ovary 65.72
- laparoscopic 65.75
- pancreatic tissue 52.81
- parathyroid tissue (heterotopic) (orthotopic) 06.95
- thyroid tissue (heterotopic) (orthotopic) 06.94
- tooth 23.5

Avulsion, nerve (cranial) (peripheral) NEC 04.07
- acoustic 04.01
- phrenic 33.31
- sympathetic 05.29

Azygography 88.63
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacterial smear</td>
<td>See Examination, microscopic</td>
</tr>
<tr>
<td>Baffes operation (interatrial transposition of venous return)</td>
<td>35.91</td>
</tr>
<tr>
<td>Baffle, atrial or interatrial</td>
<td>35.91</td>
</tr>
<tr>
<td>Balanoplasty</td>
<td>64.49</td>
</tr>
<tr>
<td>Baldy-Webster operation (uterine suspension)</td>
<td>69.22</td>
</tr>
<tr>
<td>Ballistocardiography</td>
<td>89.59</td>
</tr>
<tr>
<td>Balloon angioplasty</td>
<td>See Angioplasty, balloon pump, intra-aortic 37.61</td>
</tr>
<tr>
<td>Balloon systostomy (atrial)</td>
<td>35.41</td>
</tr>
<tr>
<td>Ball operation herniorrhapsy</td>
<td>See Repair, hernia, inguinal undercutting 49.02</td>
</tr>
<tr>
<td>Bandage elastic</td>
<td>93.56</td>
</tr>
<tr>
<td>Banding gastric</td>
<td>44.68</td>
</tr>
<tr>
<td>vertical</td>
<td>44.68</td>
</tr>
<tr>
<td>pulmonary artery</td>
<td>38.85</td>
</tr>
<tr>
<td>Bankhart operation (capsular repair into glenoid, for shoulder dislocation)</td>
<td>81.82</td>
</tr>
<tr>
<td>Bardenheuer operation (ligation of innominate artery)</td>
<td>38.85</td>
</tr>
<tr>
<td>Barium swallow</td>
<td>87.61</td>
</tr>
<tr>
<td>Barkan operation (goniotomy)</td>
<td>12.52</td>
</tr>
<tr>
<td>with gonio puncture</td>
<td>12.53</td>
</tr>
<tr>
<td>Barr operation (transfer of tibialis posterior tendon)</td>
<td>83.75</td>
</tr>
<tr>
<td>Barsky operation (closure of cleft hand)</td>
<td>82.82</td>
</tr>
<tr>
<td>Basal metabolic rate</td>
<td>89.39</td>
</tr>
<tr>
<td>Basilite therapy (ultraviolet)</td>
<td>99.82</td>
</tr>
<tr>
<td>Biopsy abdominal wall</td>
<td>54.22</td>
</tr>
<tr>
<td>adenoid</td>
<td>28.11</td>
</tr>
<tr>
<td>adrenal gland NEC</td>
<td>07.11</td>
</tr>
<tr>
<td>closed</td>
<td>07.11</td>
</tr>
<tr>
<td>open</td>
<td>07.12</td>
</tr>
<tr>
<td>percutaneous (aspiration) (needle)</td>
<td>07.11</td>
</tr>
<tr>
<td>alveolus</td>
<td>24.12</td>
</tr>
<tr>
<td>anus</td>
<td>49.23</td>
</tr>
<tr>
<td>appendix</td>
<td>45.26</td>
</tr>
<tr>
<td>artery (any site)</td>
<td>38.21</td>
</tr>
<tr>
<td>aspiration --see Biopsy, by site bile ducts</td>
<td>51.14</td>
</tr>
<tr>
<td>closed (endoscopic)</td>
<td>51.14</td>
</tr>
<tr>
<td>open</td>
<td>51.13</td>
</tr>
<tr>
<td>percutaneous (needle)</td>
<td>51.12</td>
</tr>
<tr>
<td>bladder</td>
<td>57.33</td>
</tr>
<tr>
<td>closed</td>
<td>57.33</td>
</tr>
<tr>
<td>open</td>
<td>57.34</td>
</tr>
<tr>
<td>transurethral</td>
<td>57.33</td>
</tr>
<tr>
<td>blood vessel (any site)</td>
<td>38.21</td>
</tr>
<tr>
<td>bone</td>
<td>77.40</td>
</tr>
<tr>
<td>carpal, metacarpal</td>
<td>77.44</td>
</tr>
<tr>
<td>clavicle</td>
<td>77.41</td>
</tr>
<tr>
<td>facial</td>
<td>76.11</td>
</tr>
<tr>
<td>femur</td>
<td>77.45</td>
</tr>
<tr>
<td>fibula</td>
<td>77.47</td>
</tr>
<tr>
<td>humerus</td>
<td>77.42</td>
</tr>
</tbody>
</table>
### Biopsy - bone —Cont.
- marrow 41.31
- patella 77.46
- pelvic 77.49
- phalanges (foot) (hand) 77.49
- radius 77.43
- scapula 77.41
- specified site NEC 77.49
- tarsal, metatarsal 77.48
- thorax (ribs) (sternum) 77.41
- tibia 77.47
- ulna 77.43
- vertebrae 77.49

### Biopsy - bowel --see Biopsy, intestine

### Biopsy - brain NEC 01.13
- closed 01.13
- open 01.14
- percutaneous (needle) 01.13

### Biopsy - breast 85.11
- blind 85.11
- closed 85.11
- open 85.12
- percutaneous (needle) (Vimm-Silverman) 85.11

### Biopsy - bronchus NEC 33.24
- brush 33.24
- closed (endoscopic) 33.24
- open 33.25
- transbronchoscopic needle aspiration (TBNA) 33.24
- Wang needle (transbronchoscopic) 33.24
- washings 33.24

### Biopsy - bursa 83.21

### Biopsy - cardioesophageal (junction) 44.14
- closed (endoscopic) 44.14
- open 44.15

### Biopsy - cecum 45.25
- brush 45.25
- closed (endoscopic) 45.25
- open 45.26

### Biopsy - cerebral meninges NEC 01.11
- closed 01.11
- open 01.12
- percutaneous (needle) 01.11

### Biopsy - cervix (punch) 67.12
- conization (sharp) 67.2

### Biopsy - chest wall 34.23

### Biopsy - clitoris 71.11

### Biopsy - colon 45.25
- brush 45.25
- closed (endoscopic) 45.25
- open 45.26

### Biopsy - conjunctiva 10.21

### Biopsy - cornea 11.22

### Biopsy - cul-de-sac 70.23

### Biopsy - diaphragm 34.27

### Biopsy - duodenum ---Cont.
- closed (endoscopic) 45.14
- open 45.15
- ear (external) 18.12
  - middle or inner 20.32
- endocervix 67.11
- endometrium NEC 68.16
  - aspiration curettage 69.59
  - dilation and curettage 69.09
- extraocular muscle or tendon 15.01
- eye 16.23
  - muscle (oblique) (rectus) 15.01
- eyelid 08.11
- fallopian tube 66.11
- fascia 83.21
- fetus 75.33
- gallbladder 51.12
  - closed (endoscopic) 51.14
  - open 51.13
  - percutaneous (needle) 51.12
- ganglion (cranial) (peripheral) NEC 04.11
  - closed 04.11
  - open 04.12
  - percutaneous (needle) 04.11
  - sympathetic nerve 05.11
- gum 24.11
- heart 37.25
- hypophysis --see also Biopsy, pituitary gland 07.15
- ileum 45.14
  - brush 45.14
  - closed (endoscopic) 45.14
  - open 45.15
- intestine NEC 45.27
  - large 45.25
    - brush 45.25
    - closed (endoscopic) 45.25
    - open 45.26
  - small 45.14
    - brush 45.14
    - closed (endoscopic) 45.14
    - open 45.15
- intra-abdominal mass 54.24
  - closed 54.24
  - percutaneous (needle) 54.24
- iris 12.22
- jejunum 45.14
  - brush 45.14
  - closed (endoscopic) 45.14
  - open 45.15
- joint structure (aspiration) 80.30
  - ankle 80.37
Biopsy - joint structure ---Cont.
  elbow 80.32
  foot and toe 80.38
  hand and finger 80.34
  hip 80.35
  knee 80.36
  shoulder 80.31
  specified site NEC 80.39
  spine 80.39
  wrist 80.33

kidney 55.23
  closed 55.23
  open 55.24
  percutaneous (aspiration) (needle) 55.23

labia 71.11

lacrimal
  gland 09.11
  sac 09.12

larynx 31.43
  brush 31.43
  closed (endoscopic) 31.43
  open 31.45

lip 27.23

liver 50.11
  closed 50.11
  laparoscopic 50.14
  open 50.12
  percutaneous (aspiration) (needle) 50.11
  transjugular 50.13
  transvenous 50.13

lung NEC 33.27
  brush 33.24
  closed (percutaneous) (needle) 33.26
  brush 33.24
  endoscopic 33.27
  brush 33.24
  endoscopic 33.27
  brush 33.24
  open 33.28
  transbronchial 33.27
  transthoracic 33.26
  thoracoscopic 33.20

lymphatic structure (channel) (node) (vessel) 40.11

mediastinum NEC 34.25
  closed 34.25
  open 34.26
  percutaneous (needle) 34.25

meninges (cerebral) NEC 01.11
  closed 01.11
  open 01.12
  percutaneous (needle) 01.11

spinal 03.32

mesentery 54.23

mouth NEC 27.24

muscle 83.21

extraocular 15.01

---Cont.

Biopsy - muscle ---Cont.

ocular 15.01

nasopharynx 29.12

nerve (cranial) (peripheral) NEC 04.11
  closed 04.11
  open 04.12
  percutaneous (needle) 04.11
  sympathetic 05.11

nose, nasal 21.22

sinus 22.11
  closed (endoscopic) (needle) 22.11
  open 22.12

ocular muscle or tendon 15.01

omentum
  closed 54.24
  open 54.23
  percutaneous (needle) 54.24

orbit 16.23
  by aspiration 16.22

ovary 65.12
  by aspiration 65.11
  laparoscopic 65.13

palate (bony) 27.21

soft 27.22

pancreas 52.11
  closed (endoscopic) 52.11
  open 52.12
  percutaneous (aspiration) (needle) 52.11

pancreatic duct 52.14
  closed (endoscopic) 52.14

parathyroid gland 06.13

penis 64.11

perianal tissue 49.22

pericardium 37.24

periprostatic 60.15

perirectal tissue 48.26

perirenal tissue 59.21

peritoneal implant
  closed 54.24
  open 54.23
  percutaneous (needle) 54.24

peritoneum
  closed 54.24
  open 54.23
  percutaneous (needle) 54.24

periurethral tissue 58.24

perivesical tissue 59.21

pharynx, pharyngeal 29.12

pineal gland 07.17

pituitary gland 07.15
  transfrontal approach 07.13
  transsphenoidal approach 07.14

pleura, pleural 34.24
  thoracoscopic 34.20

prostate NEC 60.11
  closed (transurethral) 60.11
  open 60.12
  percutaneous (needle) 60.11
  transrectal 60.11
**Biopsy -- Cont.**

- rectum 48.24
  - brush 48.24
  - closed (endoscopic) 48.24
  - open 48.25
- retroperitoneal tissue 54.24
- salivary gland or duct 26.11
  - closed (needle) 26.11
  - open 26.12
- scrotum 61.11
- seminal vesicle NEC 60.13
  - closed 60.13
  - open 60.14
  - percutaneous (needle) 60.13
- sigmoid colon 45.25
  - brush 45.25
  - closed (endoscopic) 45.25
  - open 45.26
- sinus, nasal 22.11
  - closed (endoscopic) (needle) 22.11
  - open 22.12
- skin (punch) 86.11
- skull 01.15
- soft palate 27.22
- soft tissue NEC 83.21
- sphincter of Oddi 51.14
  - closed (endoscopic) 51.14
  - open 51.13
- spinal cord (meninges) 03.32
  - closed 03.32
  - open 03.33
  - percutaneous (aspiration) (needle) 03.32
- stomach 44.14
  - brush 44.14
  - closed (endoscopic) 44.14
  - open 44.15
- subcutaneous tissue (punch) 86.11
- supraglottic mass 29.12
- sympathetic nerve 05.11
- tendon 83.21
  - extracocular 15.01
  - ocular 15.01
- testis NEC 62.11
  - closed 62.11
  - open 62.12
  - percutaneous (needle) 62.11
- thymus 07.16
- thyroid gland NEC 06.11
  - closed 06.11
  - open 06.12
  - percutaneous (aspiration) (needle) 06.11
- tongue 25.01
  - closed (needle) 25.01
  - open 25.02

**Biopsy -- Cont.**

- tonsil 28.11
- trachea 31.44
  - brush 31.44
  - closed (endoscopic) 31.44
  - open 31.45
- tunica vaginalis 61.11
- umbilicus 54.22
- ureter 56.33
  - closed (percutaneous) 56.32
  - endoscopic 56.33
  - open 56.34
  - transurethral 56.33
- urethra 58.23
- uterus, uterine (endometrial) 68.16
  - aspiration curettage 69.59
  - dilation and curettage 69.09
- closed (endoscopic) 68.16
- ligaments 68.15
  - closed (endoscopic) 68.15
  - open 68.14
  - open 68.13
- uvula 27.22
- vagina 70.24
- vas deferens 63.01
- vein (any site) 38.21
- vulva 71.11

**BiPAP 93.90**

- delivered by endotracheal tube -- see category 96.7
- tracheostomy -- see category 96.7

**BIS (bispectral index) monitoring 00.94 [89.14]**

**Bischoff operation (ureteroneocystostomy) 56.74**

**Bisection -- see also Excision hysterecomy 68.39**

**Blalock operation (systemic-pulmonary anastomosis) 39.0**

**Blalock-Hanlon operation (creation of atrial septal defect) 35.42**

**Blalock-Taussig operation (subclavian-pulmonary anastomosis) 39.0**

**Blascovic operation (resection and advancement of levator palpebrae superioris) 08.33**

**Blepharectomy 08.20**

**Blepharoplasty -- see also Reconstruction, eyelid 08.70**

- extensive 08.44
Blepharorrhaphy 08.52
division or severing 08.02
Blepharotomy 08.09
Blind rehabilitation therapy NEC 93.78
Block
caudal --see Injection, spinal celiac
ganglion or plexus 05.31
dissection
breast
  bilateral 85.46
  unilateral 85.45
bronchus 32.6
larynx 30.3
lymph nodes 40.50
neck 40.40
vulva 71.5
epidural, spinal --see Injection, spinal
gasserian ganglion 04.81
intercostal nerves 04.81
intrathecal --see injection, spinal
cerebrospinal fluid 04.81
paravertebral stellate ganglion 05.31
peripheral nerve 04.81
spinal nerve root (intrathecal)
--see Injection, spinal
stellate (ganglion) 05.31
subarachnoid, spinal --see Injection, spinal
sympathetic nerve 05.31
trigeminal nerve 04.81
Bone
age studies 88.33
mineral density study 88.98
Bonney operation (abdominal hysterectomy) 68.49
laparoscopic 68.41
Boor operation (iridotomy) 12.63
Bost operation
plantar dissection 80.48
radiocarpal fusion 81.26
Bosworth operation
arthroplasty for acromioclavicular
separation 81.83
fusion of posterior lumbar and
lumbosacral spine 81.08
for pseudarthrosis 81.38
Resection of radial head ligaments (for
tennis elbow) 80.92
shelf procedure, hip 81.40
Bottle repair of hydrocele, tunica- vaginalis 61.2
Boyd operation (hip disarticulation) 84.18
Brachytherapy
intravascular 92.27
Brauer operation (cardiomyopathy) 37.10
Breach extraction --see Extraction, breech
Bricker operation (ileoureterostomy) 56.51
Brissel operation (forced) 93.26
Bristow operation (repair of shoulder
dislocation) 81.82
Brock operation (pulmonary valvotomy) 35.03
Brockman operation (soft tissue release for
clubfoot) 83.84
Bronchogram, bronchoscopy 87.32
endotracheal 87.31
transcricoid 87.32
Bronchoplasty 33.48
Bronchorrhaphy 33.41
Bronchoscopy NEC 33.23
with biopsy 33.24
lung 33.27
brush 33.24
fiberoptic 33.22
with biopsy 33.24
lung 33.27
brush 33.24
through tracheostomy 33.21
with biopsy 33.24
lung 33.27
brush 33.24
Bronchospirometry 89.38
Bronchostomy 33.0
closure 33.42
Bronchotomy 33.0
Browne (- Denis) operation
(hypospadias repair) 58.45
Brunschwig operation (temporary
gastrostomy) 43.19
Buckling, scleral 14.49
with
air tamponade 14.49
implant (silicone) (vitreous) 14.41
resection of sclera 14.49
vitrectomy 14.49
vitreous implant (silicone) 14.41
Bunionectomy 77.59
radical
with
arthrodesis 77.52
ostotomies of first metatarsal 77.51
resection of joint with prosthetic implant 77.59
soft tissue correction NEC 77.53
Bunnell operation 82.56
(tendon transfer)
Burch procedure 82.66
(retropubic urethral suspension for urinary stress incontinence) 59.5
Burgess operation 84.14
(removal of ankle)
Burn dressing 93.57
Burr holes 01.24
Bursectomy 83.5
hand 82.31
Bursocentesis 83.94
hand 82.92
Bursotomy 83.03
hand 83.03
Burying of fimbriae in uterine wall 66.97

Bypass 36.17
---Cont.
abdominal - coronary artery
aortocoronary (catheter stent) (with prostheses) (with saphenous vein graft) (with vein graft) 36.10
one coronary vessel 36.11
two coronary vessels 36.12
three coronary vessels 36.13
four coronary vessels 36.14
arterial (graft) (mandril grown graft)
   (vein graft) NEC 39.29
carotid- cerebral 39.28
carotid- vertebral 39.28
extracranial- intracranial [EC- IC] 39.28
intrathoracic NEC 39.23
intra- abdominal NEC 39.26
cardiothoracic NEC 39.29
extracranial- intracranial [EC- IC] 39.28

gastric 44.39
   high 44.31
   laparoscopic 44.38
Printen and Mason 44.31
Bypass—Cont.
coronary --see also Bypass, aortocoronary 36.10
extracranial- intracranial [EC- IC] 39.28
femoral- femoral 39.29
femoroperoneal 39.29
femoropopliteal (reversed saphenous vein) (saphenous) 39.29
femorotibial (anterior) (posterior) 39.29
iliofemoral 39.25
ilioiliac 39.26
internal mammary- coronary artery (single) 36.15
double vessel 36.16
intra- abdominal (arterial) NEC 39.26
venous NEC 39.1
intrathoracic NEC 39.23
peripheral artery NEC 39.29
popliteal- tibial 39.29
renal artery 39.24
splenorenal (venous) 39.1
arterial 39.26
subclavian- axillary 39.29
subclavian- carotid 39.22
subclavian- subclavian 39.22
Y graft to renal arteries 39.24
Caldwell operation (sulcus extension) 24.91
Caldwell-Luc operation (maxillary sinusotomy) 22.39
with removal of membrane lining 22.31
Calibration, urethra 89.29
Calicectomy (renal) 55.4
Caller operation (knee disarticulation) 84.16
Caloric test, vestibular function 95.44
Calycectomy (renal) 55.4
Calyco-ileoneocystostomy 55.86
Calycotherapy 55.4
Campbell operation
bone block, ankle 81.11
fasciotomy (iliac crest) 83.14
reconstruction of anterior cruciate ligament 81.45
Campimetry 95.05
Canaliculodacryocystorhinostomy 10.81
Canaliculoplasty 09.73
Canalicullrhinostomy 09.81
Canaloplasty, external auditory meatus 18.6
Cannulation --see also Insertion, catheter
ampulla of Vater 51.99
antrum 22.01
arteriovenous 39.93
artery 38.91
caval-mesenteric vein 39.1
cisterna chyli 40.61
Eustachian tube 20.8
lacrymal apparatus 09.42
lymphatic duct, left (thoracic) 40.61
nasal sinus (by puncture) 22.01
through natural ostium 22.02
pancreatic duct 52.92
by retrograde endoscopy (ERP) 52.93
renoporal 39.1
sinus (nasal) (by puncture) 22.01
through natural ostium 22.02
splenoportal 39.1
arterial 39.26
thoracic duct (cervical approach) (thoracic approach) 40.61
Cannulization --see Cannulation
Canthocystostomy 09.82
Canthoplasty 08.59
Canthorrhaphy 08.52
division or severing 08.02
Canthotomy 08.51
Capsulectomy
joint --see also Arthrectomy 80.90
kidney 55.91
lens 13.65
with extraction of lens 13.51
Capsulectomy --Cont.

ovary 65.29
laparoscopic 65.25
Capsul-iridectomy 13.65
Capsuloplasty --see Arthroplasty
Capsulorrhaphy 81.96
with arthroplasty --see Arthroplasty
ankle 81.94
foot 81.94
lower extremity NEC 81.95
upper extremity 81.93
Capsulotomy
joint --see also Division, joint capsule 80.40
for claw toe repair 77.57
lens 13.64
with
discission of lens 13.2
removal of foreign body 13.02
by magnet extraction 13.01
Cardiac
mapping 37.27
massage (external) (closed chest) 99.63
open chest 37.91
retraining 93.36
Cardiac support device (CSD) 37.41
Cardectomy (stomach) 43.3
Cardiocentesis 36.39
Cardiography --see also Angiocardiography 88.50
Cardiolysis 37.10
Cardiomyopexy 36.39
Cardiomyotomy 42.7
Cardio-omentopexy 36.39
Cardioendocardiopectomy 36.39
Cardioplasty (stomach and esophagus) 44.65
stomach alone 44.66
laparoscopic 44.67
Cardioplegia 39.63
Cardiopneumopexy 36.39
Cardiopulmonary bypass 36.39
Cardiosclerosis 37.12
Cardiosplenopexy 36.39
Cardiomyopathy 42.7
Cardiovascular disease 42.7
Cardiovalvulotomy --see Valvulotomy, heart
Cardioversion (external) 99.62
atrial 99.61
CarboWest™ Total Temporary Artificial Heart (TAH-t) 37.52
Carotid pulse tracing with ECG lead 89.56
Carotectomy (partial) 77.84
total 77.94
Carroll and Taber arthroplasty (proximal interphalangeal joint) 81.72
Casting (for immobilization) NEC 93.53
with fracture-reduction --see Reduction, fracture
Castration
female (oophorectomy, bilateral) 65.51
laparoscopic 65.53
male 62.41
C.A.T. (computerized axial tomography) --see also Scan, C.A.T. 88.38
Catheterization --see also Insertion, catheter
arteriovenous 39.93
bladder, indwelling 57.94
percutaneous (cystostomy) 57.17
suprapubic NEC 57.18
bronchus 96.05
with lavage 96.56
cardiac (right) 37.21
combined left and right 37.23
left 37.22
combined with right heart 37.23
right 37.21
combined with left heart 37.23
central venous NEC 38.93
peripherally inserted central catheter (PICC) 38.93
chest 34.04
revision (with lysis of adhesions) 34.04
thorascopic 34.06
Eustachian tube 20.5
heart (right) 37.21
combined left and right 37.23
left 37.22
combined with right heart 37.23
right 37.21
combined with left heart 37.23
hepatic vein 38.93
inferior vena cava 38.93
intercostal space (with water seal), for drainage 34.04
revision (with lysis of adhesions) 34.04
thorascopic 34.06
lacrimal gland 09.21
punctum 09.72
for eversion 09.71
sac 09.6
larynx 30.09
liver 50.29
lung 32.29
endoscopic 32.28
meibomian gland 08.25
nose, for epistaxis (with packing) 21.03
ovary 65.29
laparoscopic 65.25
palate (bony) 27.31
pannis (superificial) 11.42
pharynx 29.39
punctum, lacrimal 09.72
for eversion 09.71
rectum 48.32
radical 48.31
round ligament 69.19
sclera 12.84
with iridectomy 12.62
skin 86.3
subcutaneous tissue 86.3
tonsillar fossa 28.7
urethra 58.39
endoscopic 58.31
uterus 68.29
Cattell operation (herniorrhaphy) 53.51
Cauterization --see also Destruction, lesion, by site
anus NEC 49.39
endoscopic 49.31
Bartholin's gland 71.24
broad ligament 69.19
brachial 32.09
endoscopic 32.01
canaluculi 09.73
cervix 67.32
chalazion 08.25
choroid plexus 02.14
conjunctiva 10.33
lesion 10.32
cornea (fistula) (ulcer) 11.42
ear, external 18.29
endometrial implant --see Excision, lesion, by site
entropion 08.41
esophagus 42.39
endoscopic 42.33
eyelid 08.25
for entropion or ectropion 08.41
fallopian tube 66.61
by endoscopy (hysteroscopy) (laparoscopy) 66.29
hemorrhoids 49.43
iris 12.41
lacrimanosal duct 09.44
laryngeal 96.05
nasolacrimal duct 09.44
pancreatic cyst 52.01
renal vein 38.93
Swan-Ganz (pulmonary) 89.64
transtracheal for oxygenation 31.99
umbilical vein 38.92
ureter (to kidney) 59.8
for retrograde pyelogram 87.74
urethra, indwelling 57.94
vein NEC 38.93
for renal dialysis 38.95

Cauterization ---Cont.
  vagina 70.33
  vocal cords 30.09
  vulva 71.3
Cavernoscopy 34.21
Cavernostomy 33.1
Cavernotomy, kidney 55.39
Cavography (inferior vena cava) 88.51
CCM (implantation of cardiac contractility modulation)
  rechargeable pulse generator only 17.52
  total system 17.51
Cecectomy (with resection of terminal ileum)
  laparoscopic 17.32
  open and other 45.72
Cecil operation (urethral reconstruction) 58.46
Cecocolicopexy 46.63
Cecocolostomy 45.94
Cecosigmoidostomy 45.94
Cecostomy (tube) --see also Colostomy 46.10
Cecotomy 45.03
Celiocentesis 54.91
Celiectomy 54.21
Cell block and Papanicolaou smear
  --see Examination, microscopic
CentriMag® acute circulatory support device 37.62
Cephalogram 87.17
  dental 87.12
  orthodontic 87.12
Cephalometry, cephalometrics 87.17
  echo 88.78
  orthodontic 87.12
  ultrasound (sonar) 88.78
  x-ray 87.81
Cephalotomy, fetus 73.8
Cerclage
  anus 49.72
  cervix 67.51
    transabdominal 67.51
    transvaginal 67.59
  isthmus uteri (cervix) 67.59
  retinal reattachment --see also
    Buckling, scleral 14.49
    sclera --see also Buckling, scleral 14.49
Cervicectomy (with synchronous colporrhaphy) 67.4
Cervicoplasty 67.69
Cesarean section 74.99
  classical 74.0
  corporeal 74.0
  extraperitoneal 74.2
  fundal 74.0
  laparotricelotomy 74.1
  Latzko 74.2
  low cervical 74.1
  lower uterine segment 74.1
  peritoneal exclusion 74.4
  specified type NEC 74.4
  supravesical 74.2
  transperitoneal 74.4
    classical 74.0
    low cervical 74.1
  upper uterine segment 74.0
  vaginal 74.4
  Waters 74.2
Chamberlain procedure --see Mediastinotomy
Chandler operation (hip fusion) 81.21
Change --see also Replacement
  cast NEC 97.13
    lower limb 97.12
    upper limb 97.11
  cystostomy catheter or tube 59.94
  gastrostomy tube 97.02
  length
    bone --see either category 78.2
    muscle 83.85
    hand 82.55
    tendon 83.85
    hand 82.55
  nephrostomy catheter or tube 55.93
  pyelostomy catheter or tube 55.94
  splint 97.14
  tracheostomy tube 97.23
  ureterostomy catheter or tube 55.93
  urethral catheter, indwelling 57.95
Character analysis, psychologic 94.03
Charles operation (correction of lymphedema) 40.9
Charnley operation (compression arthrodesis)
  ankle 81.11
  hip 81.21
  knee 81.22
Cheatle-Henry operation --see Repair, hernia, femoral
Check
  automatic implantable
    cardioverter/defibrillator (AICD)
      (interrogation only) 89.49
  CRT- D (cardiac resynchronization defibrillator)
      (interrogation only) 89.49
  CRT- P (cardiac resynchronization pacemaker) (interrogation only) 89.45
Check ---Cont.
  pacemaker, artificial (cardiac)(function)
    (interrogation only)(rate) 89.45
    amperage threshold 89.48
    artifact wave form 89.46
    electrode impedance 89.47
    voltage threshold 89.48
    vision NEC 95.09
Cheiloplasty 27.59
Cheilorrhaphy 27.51
Cheilostomatomy 27.59
Cheilotomy 27.0
Chemical peel, skin 86.24
Chemocauterization --see also Destruction, lesion, by site
corneal epithelium 11.41
  palate 27.31
Chemodectomy 39.8
ChemoeMBOLization 99.25
Chemolysis
  nerve (peripheral) 04.2
  spinal canal structure 03.8
Chemoneurolysis 04.2
Chemonucleolysis
  (nucleus pulposus) 80.52
Chemoneurostimulation 04.2
Chemopallidectomy 01.42
Chemopeel (skin) 86.24
Chemosurgery
  esophagus 42.39
  endoscopic 42.33
  Mohs' 86.24
  skin (superficial) 86.24
  stomach 43.49
  endoscopic 43.41
Chemothalamectomy 01.41
Chemotherapy --see also Immunotherapy
  Antabuse 94.25
  for cancer NEC 99.25
    brain wafer implantation 00.10
    CLO 17.70
    clofarabine 17.70
    CLOLAR® 17.70
    implantation of chemotherapeutic agent 00.10
    interstitial implantation 00.10
    intracavitary implantation 00.10
    wafer chemotherapy 00.10
  lithium 94.22
  methadone 94.25
  palate (bony) 27.31
Chevalier-Jackson operation
  (partial laryngectomy) 30.29
Child operation (radical subtotal pancreatectomy) 52.53
Cholangiocholangiostomy 51.39
Cholangiocholecystocholedochectomy 51.22
Cholangio-enterostomy 51.39
Cholangiogastrostomy 51.39
Cholangiogram 87.54
  endoscopic retrograde (ERC) 51.11
  intraoperative 87.53
  intravenous 87.52
  percutaneous hepatic 87.51
  transhepatic 87.53
Cholangiography --see also
  Cholangiogram 87.54
Cholangiojejunostomy (intrahepatic) 51.39
Cholangiopancreatography, endoscopic retrograde (ERCP) 51.10
Cholangiostomy 51.59
Cholangiotomy 51.59
Cholecystectomy (total) 51.22
  partial 51.21
    laparoscopic 51.24
  total 51.22
    laparoscopic 51.23
Cholecystenterorrhaphy 51.91
Cholecystocectomy 51.32
Cholecystocholangiogram 87.59
Cholecystocolostomy 51.32
Cholecystoduodenostomy 51.32
Cholecystoenterostomy (Winiwater) 51.32
Cholecystogastrostomy 51.34
Cholecystogram 87.59
Cholecystoileostomy 51.32
Cholecystomy 51.32
Cholecystojejunoanastomosis 51.32
Cholecystojejunoanastomosis (Roux- en- Y)
  (with jejunojejunoanastomosis) 51.32
Cholecystopancreatostomy 51.33
Cholecystopexy 51.99
Cholecystorrhaphy 51.91
Cholecystostomy NEC 51.03
  by trocar 51.02
Cholecystotomy 51.04
  percutaneous 51.01
Choledochectomy 51.63
Choledochoduodenostomy 51.36
Choledochoenterostomy 51.36
Choledochojjunostomy 51.36
Cholechoilitstomoly 51.41
  endoscopic 51.88
Cholechoilithotripsy 51.41
  endoscopic 51.88
Cholechoiopancreatoectomy 51.39
Cholechooplasty 51.72
Cholechooenterorrhaphy 51.71
Cholechooscopy 51.11
Cholechoostomy 51.51
Cholechoctomy 51.51
Cholelithotomy 51.04
Chondrectomy 80.90
  ankle 80.97
  elbow 80.92
  foot and toe 80.98
  hand and finger 80.94
  hip 80.95
  intervertebral cartilage --see category 80.5
  knee (semilunar cartilage) 80.6
Chondrectomy---Cont
nasal (submucous) 21.5
semitruncular cartilage (knee) 80.6
shoulder 80.91
specified site NEC 80.99
spine --see category 80.5
wrist 80.93
Chondroplasty --see Arthroplasty
Chondrosternoplasty
(for pectus excavatum repair) 34.74
Chondrotomy
--see Division, cartilage
80.40
nasal 21.1
Chopart operation
(midtarsal amputation) 84.12
Chordectomy, vocal 30.22
Chordotomy
(spinotralmic) (anterior)
(posterior) NEC 03.29
percutaneous 03.21
stereotactic 03.21
Ciliarotomy 12.55
Ciliectomy
(ciliary body) 12.44
eyelid margin 08.20
Cinch, cinching
for scleral buckling --see also Buckling,
scleral 14.49
ocular muscle (oblique) (rectus) 15.22
multiple (two or more muscles) 15.4
Cineangiography --see also Angiography
Cineplasty, cineplastic prosthesis
amputation --see Amputation
arm 84.44
biceps 84.44
extremity 84.40
lower 84.48
upper 84.44
leg 84.48
Cineradiograph --see Radiography
Cingulotomy (brain) (percutaneous
radio-frequency) 01.32
Circumcision
(male) 64.0
female 71.4
CISH [classic infraradial SEMM hysterectomy] 68.31
Clagett operation
(closure of chest wall
following open flap drainage) 34.72
Clamp and cautery, hemorrhoids 49.43
Clamping
aneurysm (cerebral) 39.51
blood vessel --see Ligation, blood vessel
ventricular shunt 02.43
Clavicotomy 77.31
fetal 73.8
Claviculectomy (partial) 77.81
total 77.91
Clayton operation
(resection of metatarsal
heads and bases of phalanges) 77.88
Cleaning, wound 96.59
Clearance
bladder (transurethral) 57.0
pelvic
female 68.8
male 57.71
prescalene fat pad 40.21
renal pelvis (transurethral) 56.0
ureter (transurethral) 56.0
Cleidotomy 77.31
fetal 73.8
Clipping
aneurysm (basilar) (carotid) (cerebellar)
(cerebellopontine) (communicating
artery) (vertebral) 39.51
arteriovenous fistula 39.53
frenulum, frenum
labia (lips) 27.91
lingual (tongue) 25.91
left atrial appendage 37.36
tip of uvula 27.72
Clitioridectomy 71.4
Clitioridotomy 71.4
Clivogram 87.02
Closure --see also Repair
abdominal wall 54.63
delayed (granulating wound) 54.62
secondary 54.61
tertiary 54.62
amputation stump, secondary 84.3
anular disc 80.54
with graft or prosthesis 80.53
anulus fibrosus 80.54
with graft or prosthesis 80.53
aortocopulmonary fenestration(fistula) 39.59
appendicostomy 47.92
artificial opening
bile duct 51.79
bladder 57.82
bronchus 33.42
common duct 51.72
esophagus 42.83
gallbladder 51.92
hepatic duct 51.79
intestine 46.50
large 46.52
small 46.51
kidney 55.82
larynx 31.62
rectum 48.72
stomach 44.62
thorax 34.72
trachea 31.72
ureter 56.83
urethra 58.42
atrial septal defect --see also Repair, atrial
septal defect 35.71
with umbrella device(King- Mills type) 35.52
Closure - atrial sepal defect --Cont.
combined with repair of valvular and ventricular sepal defects --see
Repair, endocardial cushion defect
bronchostomy 33.42
cecostomy 46.52
cholecystostomy 51.92
cleft hand 82.82
colostomy 46.52
cystostomy 57.82
diastema (alveolar) (dental) 24.8
disrupted abdominal wall (postoperative) 54.61
duodenostomy 46.51
duodenum 46.51
encephalocele 02.12
endocardial cushion defect --see also
Repair, heart, septum 35.73
enterostomy 46.50
esophagostomy 42.83
fenestration
aorticopulmonary 39.59
diaphragm 34.83
duodenum 46.72
ear, middle 19.9
ear drum 19.4
enterocolic 46.74
terocutaneous 46.74
enterovaginal 70.74
enterovesical 57.83
esophagobronchial 33.42
gastroesophageal 42.84
esophagotracheal 31.62
esophagus NEC 42.84
fibula 46.79
gallbladder 51.93
gastric NEC 44.63
gastrocolic 44.63
gastroenterocolic 44.63
gastroesophageal 42.84
gastojejunocolic 44.63
heart valve --see Repair, heart, valve
hepatic duct 51.79
hepatopulmonary 34.73
hepatoduodenal 39.59
ileocolic 46.74
ileorectal 46.74
in ano 49.73
intestine 46.79
jejunum 46.74
kidney 55.83
lacrima 09.99
laryngotracheal 31.62
lymphatic duct, left (thoracic) 40.63
mastoid (antrum) 19.9
mediastinobronchial 34.73
mediastinocutaneous 34.73
mouth (external) 27.53
nasal 21.82
sinus 22.71
nasolabial 21.82
nasopharyngeal 21.82
oroantral 22.71
Closure—fistula ---Cont.

oronasal 21.82
oval window (ear) 20.93
pancreaticoduodenal 52.95
perilymph 20.93
perineoanal 48.73
perineosigmoidal 46.76
perineourethrocrotal 58.43
perineum 71.72
perirectal 48.93
pharyngoesophageal 29.53
pharynx NEC 29.53
pleura, pleural NEC 34.93
pleurocutaneous 34.73
pleuropericardial 37.49
pleuroperitoneal 34.83
pulmonoperitoneal 34.83
rectolabial 48.73
rectoureteral 56.84
rectourethral 58.43
rectovaginal 57.83
rectovaginal 70.73
rectovesical 57.83
rectovesicovaginal 57.83
rectovulvar 48.73
rectum NEC 48.73
renal 55.83
reno-intestinal 55.83
round window 20.93
salivary (gland) (duct) 26.42
scrotum 61.42
sigmoidovaginal 70.74
sigmoidovesical 57.83
spleenocolic 41.95
stomach NEC 44.63
thoracic duct 40.63
thoracoabdominal 34.83
thoracogastic 34.83
thoracointestinal 34.83
thorax NEC 34.73
trachea NEC 31.73
tracheoesophageal 31.73
tympanic membrane —see also
Tymanoplasty 19.4
umbilicourinary 57.51
ureter 56.84
ureterocervical 56.84
ureterocolic 56.84
ureterosigmoidal 56.84
ureterovesical 56.84
urethra 58.43
urethropherineal 58.43
urethropherinevesical 57.84
urethropherineval 58.43
urethrocrotal 58.43
urethrocrotal 58.43
urethrovaginal 58.43
uterine 69.42
uterointestinal 69.42
uterorectal 69.42
 Closure—fistula ---Cont.
uteroureteric 56.84
uterovaginal 69.42
uterovesical 57.84
vagina 70.75
vaginocutaneous 70.75
vaginoenteric 70.74
vaginoperineal 70.75
vaginovesical 57.84
vesicocervicovaginal 57.84
vesicocystic 57.83
vesicocutaneous 57.84
vesicoenteric 57.83
vesicometrorectal 57.83
vesicovaginal 57.84
vulva 71.72
vulvovaginal 48.73
foramen ovale (patent) 35.71
with
prosthesis (open heart technique) 35.51
closed heart technique 35.52
tissue graft 35.61
gastrooduodenostomy 44.5
gastrojejunostomy 44.5
gastrostomy 44.62
iloanostomy 46.51
ileostomy 46.51
loop anastomosis 46.51
laparotomy, delayed 54.62
meningocele (spinal) 03.51
cerebral 02.12
myelomeningocele 03.52
nephrostomy 55.82
pelvisotomy 55.82
palmar cleft 82.82
patent ductus arteriosus 38.85
pelvisotomy 55.82
peptic ulcer (bleeding) (perforated) 44.40
perforation
ear drum —see also Tymanoplasty 19.4
esophagus 42.82
nasal septum 21.88
tympanic membrane —see also
Tymanoplasty 19.4
proctoplasty 48.72
punctum, lacrimal (papilla) 09.91
pyelostomy 55.82
rectostomy 48.72
septum defect (heart) —see also Repair,
heart, septum 35.70
### Closure
--- *Cont.*
- sigmoidostomy 46.52
- skin (V-Y type) 86.59
- stoma
  - bile duct 51.79
  - bladder 57.82
  - bronchus 33.42
  - common duct 51.72
  - esophagus 42.83
  - gallbladder 51.92
  - hepatic duct 51.79
  - intestine 46.50
    - large 46.52
    - small 46.51
  - kidney 55.82
  - larynx 31.62
  - rectum 48.72
  - stomach 44.62
  - thorax 34.72
  - trachea 31.72
  - ureter 56.83
  - urethra 58.42
  - thoracostomy 34.72
  - tracheostomy 31.72
- ulcer (bleeding) (peptic) (perforated) 44.40
  - duodenum 44.42
  - gastric 44.41
  - intestine (perforated) 46.79
  - skin 86.59
  - stomach 44.41
  - ureterostomy 56.83
  - urethrostomy 58.42
  - vagina 70.8
  - vascular
    - percutaneous puncture -- *omit code*
  - vesicostomy 57.22
- wound -- *see also* Suture, by site
  - with graft -- *see* Graft
  - with tissue adhesive 86.59

### Coagulation, electrocoagulation
--- *see also*
- Destruction, lesion, by site
- aneurysm (cerebral) (peripheral vessel) 39.52
- arteriovenous fistula 39.53
- brain tissue (incremental) (radiofrequency) 01.59
- broad ligament 69.19
- cervix 67.32
- ear
  - external 18.29
  - inner 20.79
  - middle 20.51
- fallopian tube 66.61
- gasserian ganglion 04.05
- nose, for epistaxis (with packing) 21.03
- ovary 65.29
  - laparoscopic 65.25
- pharynx (by diathermy) 29.39
- prostatic bed 60.94

### Coagulation, electrocoagulation
--- *Cont.*
- rectum (polyp) 48.32
  - radical 48.31
- retina (for)
  - destruction of lesion 14.21
  - reattachment 14.51
  - repair for tear 14.31
- round ligament 69.19
- semicircular canals 20.79
- spinal cord (lesion) 03.4
- urethrovessical junction, transurethral 57.49
- uterosacral ligament 69.19
- uterus 68.29
- vagina 70.33
- vulva 71.3

### Coating, aneurysm of brain 39.52

### Cobalt-60 therapy (treatment) 92.23

### Coccygectomy (partial) 77.89
  - total 77.99

### Coccygotomy 77.39

### "Cocked hat" procedure (metacarpal lengthening and transfer of local flap) 82.69

### Cockett operation (varicose vein)
  - lower limb 38.59
  - upper limb 38.53

### Cody tack (perforation of footplate) 19.0

### Coffey operation
  - uterine suspension
    - (Meig’s modification) 69.22

### Cole operation (anterior tarsal wedge osteotomy) 77.28

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

---
Collapse, lung, surgical 33.39
  by
destruction of phrenic nerve 33.31
pneumoperitoneum 33.33
pneumothorax, artificially-induced 33.32
thoracoplasty 33.34
Collection, sperm for artificial insemination 99.96
Collis-Nissen operation (hiatal hernia repair
with esophagogastroplasty) 53.80
Colocentesis 45.03
Colocolostomy 45.94
  proximal to distal segment 45.79
Colocystoplasty 57.87 [45.52]
Colofixation 46.64
Coloileotomy 45.00
Colonna operation
  adductor tenotomy (first stage) 83.12
  hip arthroplasty (second stage) 81.40
  reconstruction of hip (second stage) 81.40
Colonoscopy 45.23
  with biopsy 45.25
  rectum 48.24
  stent --- see Insertion, stent, colon
  fiberoptic (flexible) 45.23
  intraoperative 45.21
  through stoma (artificial) 45.22
  transabdominal 45.21
Colopexy 46.63
Coloplication 46.64
Colopexy NEC -- see also Division, joint capsule
  mandible (open) 80.40
  mandible (closed) 76.62
  closed 76.61
Colonization
cervix (knife) (sharp) (biopsy) 67.2
  by
cryosurgery 67.33
  electrocoagulation 67.32
Conjunctivocystostomy 09.82
  with insertion of tube or stent 09.83
Conjunctivodacryocystostomy (CDCR) 09.82
  with insertion of tube or stent 09.83
Constrictor operation 10.49
Constriction of globe, for scleral buckling
  -- see also Buckling, scleral 14.49
Construction
auricle, ear (with graft) (with implant) 18.71
meatus (osseous) (skin-lined) 18.6
endorectal ileal pouch (J-pouch) (S-pouch) (with anastomosis to anus) 45.95
esophagus, artificial --see Anastomosis, esophagus

Control
- hemorrhage --Cont.
colon 45.49
endoscopic 45.43
duodenum (ulcer) 44.49
by
embolization (transcatheter) 44.44
suture (ligation) 44.42
endoscopic 44.43
esophagus 42.39
endoscopic 42.33
gastric (ulcer) 44.49
by
embolization (transcatheter) 44.44
suture (ligation) 44.41
endoscopic 44.43
intracranial 34.09
postoperative (recurrent) 34.03
laparotomy site 54.12
nasal --see also Control, epistaxis 21.00
peptic (ulcer) 44.49
by
embolization (transcatheter) 44.44
suture (ligation) 44.40
endoscopic 44.43
pleura, pleural cavity 34.09
postoperative (recurrent) 34.03
postvascular surgery 39.41
prostate 60.94
specified site NEC 39.98
stomach --see Control, hemorrhage, gastric
thorax NEC 34.09
postoperative (recurrent) 34.03
thyroid (postoperative) 06.02
tonsils (postoperative) 28.7

Conversion
anastomosis --see Revision, anastomosis
atrial rhythm (to sinus rhythm) 99.61
cardiac rhythm NEC 99.69
to sinus rhythm 99.62
gastrostomy to jejunostomy (endoscopic)
for feeding tube placement 46.32
obstetrical position --see Version

Cooling, gastric 96.31
CorCap™ 37.41
Corpectomy, vocal 30.22
Cordectomy, vocal 31.69
Cordedectomy, spinal 03.29
Cordectomy, vocal 31.3
Corectomy 12.12
Corelysis 12.35
Coreoplasty 12.35
Corneoplastoplasty 11.53
Corpectomy, (vertebral) 80.99
with disectomy 80.99

Consultation 89.09
comprehensive 89.07
limited (single organ system) 89.06
specified type NEC 89.08

Continuous positive airway pressure [CPAP] (non-invasive) 93.90
delivered by
endotracheal tube --see category 96.7
tracheostomy --see category 96.7

Control
atmospheric pressure and composition
NEC 93.98
antigen-free air conditioning 93.98
decompression chamber 93.97
mountain sanatorium 93.98
epistaxis 21.00
by
cauterization (and packing) 21.03
coagulation (with packing) 21.03
electrocoagulation (with packing) 21.03
excision of nasal mucosa with grafting 21.07
ligation of artery 21.09
ethmoidal 21.04
external carotid 21.06
maxillary (transantral) 21.05
packing (nasal) (anterior) 21.01
posterior (and anterior) 21.02
specified means NEC 21.09

hemorrhage 39.98
abdominal cavity 54.19
adenoids (postoperative) 28.7
anus (postoperative) 49.95
bladder (postoperative) 57.93
chest 34.09
Correction --see also Repair
atresia
  esophageal 42.85
    by magnetic forces 42.99
  external meatus (ear) 18.6
  nasopharynx, nasopharyngeal 29.4
  rectum 48.0
  tricuspid 35.94
atrial septal defect --see also Repair, atrial septal defect 35.71
  combined with repair of valvular and ventricular septal defects
    --see Repair, endocardial cushion defect
blepharoptosis --see also Repair, blepharoptosis 08.36
bunionette (with osteotomy) 77.54
chordee 64.42
claw toe 77.57
cleft
  lip 27.54
  palate 27.62
clubfoot NEC 83.84
coarctation of aorta
  with
    anastomosis 38.34
    graft replacement 38.44
cornea NEC 11.59
  refractive NEC 11.79
    epikeratophakia 11.76
    keratomileusis 11.71
    keratophakia 11.72
    radial keratotomy 11.75
esophageal atresia 42.85
  by magnetic forces 42.99
  everted lacrimal punctum 09.71
eyelid
  ptosis --see also Repair, blepharoptosis 08.36
  retraction 08.38
fetal defect 75.36
forcible, of musculoskeletal deformity NEC 93.29
hammer toe 77.56
hydraulic pressure, open surgery for penile inflatable prosthesis 64.99
  urinary artificial sphincter 58.99
intestinal malrotation 46.80
  large 46.82
  small 46.81
inverted uterus --see Repair, inverted uterus
lymphedema (of limb) 40.9
  excision with graft 40.9
  obliteration of lymphatics 40.9
  transplantation of autogenous lymphatics 40.9
nasopharyngeal atresia 29.4
overlapping toes 77.58

Correction --Cont.
  palate (cleft) 27.62
  prognathism NEC 76.64
  prominent ear 18.5
  punctum (everted) 09.71
  spinal syndactyly 86.85
tetralogy of Fallot
  one-stage 35.81
  partial --see specific procedure
  total 35.81
  total anomalous pulmonary venous connection
    one-stage 35.82
    partial --see specific procedure
    total 35.83
  transposition, great arteries, total 35.84
  tricuspid atresia 35.94
  truncus arteriosus
    one-stage 35.83
    partial --see specific procedure
    total 35.83
  ureteropelvic junction 55.87
  ventricular septal defect --see also Repair, ventricular septal defect 35.72
  combined with repair of valvular and atrial septal defects --see Repair, endocardial cushion defect
Costectomy 77.91
  with lung excision --see Excision, lung associated with thoracic operation
    --omit code
Costochondrectomy 77.91
  associated with thoracic operation
    --omit code
Costosternoplasty (pectus excavatum repair) 34.74
Costotomy 77.31
Costotransversectomy 77.91
  associated with thoracic operation
    --omit code
Counseling (for) NEC 94.49
  alcoholism 94.46
  drug addiction 94.45
  employers 94.49
Counseling --Cont.
  family (medical) (social) 94.49
  marriage 94.49
  ophthalmologic (with instruction) 95.36
  pastoral 94.49
Countershock, cardiac NEC 99.62
Coventry operation (tibial NEC osteotomy) 77.27
CPAP (continuous positive airway pressure) 93.90
  delivered by
    endotracheal tube --see category 96.7
    tracheostomy --see category 96.7
Craniectomy 01.25
  linear (opening of cranial suture) 02.01
  reopening of site 01.23
  strip (opening of cranial suture) 02.01
Cranioplasty, fetal 73.8
Cranioclasis, fetal 73.8
Craniotomy 01.24
  as operative approach 73.8
  for decompression of fracture 02.02
  reopening of site 01.23
Craterization, bone -- see also Excision, lesion, bone 77.60
Crawford operation 08.32
Creation -- see also Formation
  cardiac device (defibrillator) (pacemaker) pocket
    with initial insertion of cardiac device
      -- omit code
    new site (skin) (subcutaneous) 37.79
  conduit
    ileal (urinary) 56.51
    left ventricle and aorta 35.93
    right atrium and pulmonary artery 35.94
    right ventricle and pulmonary (distal) artery 35.92
    in repair of
      pulmonary artery atresia 35.92
      transposition of great vessels 35.92
      truncus arteriosus 35.83
    endorectal ileal pouch (J-pouch) (H-pouch) (S-pouch) with anastomosis to anus 45.95
  esophagogastric sphincteric competence NEC 44.66
    laparoscopic 44.67
    Hartmann pouch -- see Colectomy, by site interatrial fistula 35.42
    pericardial window 37.12
    pleural window, for drainage 34.09
  pocket
    cardiac device (defibrillator) (pacemaker)
      with initial insertion of cardiac device
        -- omit code
      new site (skin) (subcutaneous) 37.79
    loop recorder 37.79
    thalamic stimulator pulse generator
      with initial insertion of battery package
        -- omit code
      new site (skin) (subcutaneous) 86.09
    shunt -- see also Shunt arteriovenous fistula, for dialysis 39.93
    left-to-right (systemic to pulmonary circulation) 39.0

Creation -- Cont.
  subcutaneous tunnel for esophageal anastomosis 42.86
  with anastomosis -- see Anastomosis, esophageus, antesternal syneactly (finger) (toe) 86.89
  thalamic stimulator pulse generator
    with initial insertion of battery package
      -- omit code
    new site (skin) (subcutaneous) 86.09
    tracheoesophageal fistula 31.95
  window
    pericardial 37.12
    pleura, for drainage 34.09

Credé maneuver 73.59
Cricoideotomy 30.29
Cricothyreotomy 31.1
Cricothyroidectomy 30.29
Cricothyrodissection 31.1
Cricothyrotomy (for assistance in breathing) 31.1
Cricotomysis (for assistance in breathing) 31.1
Cricotracheotomy (for assistance in breathing) 31.1
Crisis intervention 94.35
Croupette, croup tent 93.94
Crown, dental (ceramic) (gold) 23.41
Crushing
  bone -- see category 78.4
  calculus
    bile (hepatic) passage 51.49
    endoscopic 51.88
  bladder (urinary) 57.0
  pancreatic duct 52.09
    endoscopic 52.94
  fallopian tube -- see also Ligation, fallopian tube 66.39
  ganglion -- see Crushing, nerve
  hemorrhoids 49.45
  nasal septum 21.88
  nerve (cranial) (peripheral) NEC 04.03
    acoustic 04.01
    auditory 04.01
    phrenic 04.03
    for collapse of lung 33.31
    sympathetic 05.0
    trigeminal 04.02
    vestibular 04.01
  vas deferens 63.71
Cryoaablation -- see Ablation
Cryoanalgesia nerve (cranial) (peripheral) 04.2
Cryoconization, cervix 67.33
Cryodestruction -- see Destruction, lesion, by site
Cryoextraction, lens -- see also Extraction, cataract, intracapsular 13.19
Cryohypophysectomy (complete) (total) -- see also Hypophysectomy 07.69
Cryoleucotomy 01.32
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryopexy, retinal --see Cryotherapy, retina</td>
<td></td>
</tr>
<tr>
<td>Cryoprostatectomy 60.62</td>
<td></td>
</tr>
<tr>
<td>Cryoretinopexy (for)</td>
<td></td>
</tr>
<tr>
<td>--reattachment 14.52</td>
<td></td>
</tr>
<tr>
<td>--repair of tear or defect 14.32</td>
<td></td>
</tr>
<tr>
<td>Cryosurgery --see Cryotherapy</td>
<td></td>
</tr>
<tr>
<td>Cryothalamectomy 01.41</td>
<td></td>
</tr>
<tr>
<td>Cryotherapy --see also Destruction, lesion, by site</td>
<td></td>
</tr>
<tr>
<td>bladder 57.59</td>
<td></td>
</tr>
<tr>
<td>brain 01.59</td>
<td></td>
</tr>
<tr>
<td>cataract 13.19</td>
<td></td>
</tr>
<tr>
<td>cervix 67.33</td>
<td></td>
</tr>
<tr>
<td>choroid --see Cryotherapy, retina</td>
<td></td>
</tr>
<tr>
<td>ciliary body 12.72</td>
<td></td>
</tr>
<tr>
<td>corneal lesion (ulcer) 11.43</td>
<td></td>
</tr>
<tr>
<td>to reshape cornea 11.79</td>
<td></td>
</tr>
<tr>
<td>ear</td>
<td></td>
</tr>
<tr>
<td>external 18.29</td>
<td></td>
</tr>
<tr>
<td>inner 20.79</td>
<td></td>
</tr>
<tr>
<td>esophagus 42.39</td>
<td></td>
</tr>
<tr>
<td>endoscopic 42.33</td>
<td></td>
</tr>
<tr>
<td>eyelid 08.25</td>
<td></td>
</tr>
<tr>
<td>hemorrhoids 49.44</td>
<td></td>
</tr>
<tr>
<td>iris 12.41</td>
<td></td>
</tr>
<tr>
<td>nasal turbinates 21.61</td>
<td></td>
</tr>
<tr>
<td>palate (bony) 27.31</td>
<td></td>
</tr>
<tr>
<td>prostate 60.62</td>
<td></td>
</tr>
<tr>
<td>retina (for)</td>
<td></td>
</tr>
<tr>
<td>--destruction of lesion 14.22</td>
<td></td>
</tr>
<tr>
<td>--reattachment 14.52</td>
<td></td>
</tr>
<tr>
<td>--repair of tear 14.32</td>
<td></td>
</tr>
<tr>
<td>skin 86.3</td>
<td></td>
</tr>
<tr>
<td>stomach 43.49</td>
<td></td>
</tr>
<tr>
<td>endoscopic 43.41</td>
<td></td>
</tr>
<tr>
<td>subcutaneous tissue 86.3</td>
<td></td>
</tr>
<tr>
<td>turbinates (nasal) 21.61</td>
<td></td>
</tr>
<tr>
<td>warts 86.3</td>
<td></td>
</tr>
<tr>
<td>genital 71.3</td>
<td></td>
</tr>
<tr>
<td>Cryptectomy (anus) 49.39</td>
<td></td>
</tr>
<tr>
<td>--endoscopic 49.31</td>
<td></td>
</tr>
<tr>
<td>Cryptorchidectomy (unilateral) 62.3</td>
<td></td>
</tr>
<tr>
<td>--bilateral 62.41</td>
<td></td>
</tr>
<tr>
<td>Cryptotomy (anus) 49.39</td>
<td></td>
</tr>
<tr>
<td>--endoscopic 49.31</td>
<td></td>
</tr>
<tr>
<td>Cuirass 93.99</td>
<td></td>
</tr>
<tr>
<td>Cuidocentesis 70.0</td>
<td></td>
</tr>
<tr>
<td>Cuidoplasty 70.92</td>
<td></td>
</tr>
<tr>
<td>--with graft or prosthesis 70.93</td>
<td></td>
</tr>
<tr>
<td>Cuidoscopy (exploration) (removal of foreign body or lesion) 70.22</td>
<td></td>
</tr>
<tr>
<td>Cuidotomy 70.12</td>
<td></td>
</tr>
<tr>
<td>Culp- Deweerd operation (spiral flap pyeloplasty) 55.87</td>
<td></td>
</tr>
<tr>
<td>Culp- Scardino operation (ureteral flap pyeloplasty) 55.87</td>
<td></td>
</tr>
<tr>
<td>Culture (and sensitivity) --see Examination, microscopic</td>
<td></td>
</tr>
<tr>
<td>Curettage (with packing) (with secondary closure)--see also Dilation and curettage</td>
<td></td>
</tr>
<tr>
<td>adenoids 28.6</td>
<td></td>
</tr>
<tr>
<td>anus 49.39</td>
<td></td>
</tr>
<tr>
<td>--endoscopic 49.31</td>
<td></td>
</tr>
<tr>
<td>bladder 57.59</td>
<td></td>
</tr>
<tr>
<td>--transurethral 57.49</td>
<td></td>
</tr>
<tr>
<td>bone--see also Excision, lesion, bone 77.60</td>
<td></td>
</tr>
<tr>
<td>brain 01.59</td>
<td></td>
</tr>
<tr>
<td>bursa 83.39</td>
<td></td>
</tr>
<tr>
<td>hand 82.29</td>
<td></td>
</tr>
<tr>
<td>cartilage--see also Excision, lesion, joint 80.80</td>
<td></td>
</tr>
<tr>
<td>cerebral meninges 01.51</td>
<td></td>
</tr>
<tr>
<td>chalazion 08.25</td>
<td></td>
</tr>
<tr>
<td>conjunctiva (trachoma follicles) 10.33</td>
<td></td>
</tr>
<tr>
<td>corneal epithelium 11.41</td>
<td></td>
</tr>
<tr>
<td>for smear or culture 11.21</td>
<td></td>
</tr>
<tr>
<td>ear, external 18.29</td>
<td></td>
</tr>
<tr>
<td>eyelid 08.25</td>
<td></td>
</tr>
<tr>
<td>joint--see also Excision, lesion, joint 80.80</td>
<td></td>
</tr>
<tr>
<td>meninges (cerebral) 01.51</td>
<td></td>
</tr>
<tr>
<td>spinal 03.4</td>
<td></td>
</tr>
<tr>
<td>muscle 83.32</td>
<td></td>
</tr>
<tr>
<td>hand 82.22</td>
<td></td>
</tr>
<tr>
<td>nerve (peripheral) 04.07</td>
<td></td>
</tr>
<tr>
<td>sympathetic 05.29</td>
<td></td>
</tr>
<tr>
<td>sclera 12.84</td>
<td></td>
</tr>
<tr>
<td>skin 86.3</td>
<td></td>
</tr>
<tr>
<td>spinal cord (meninges) 03.4</td>
<td></td>
</tr>
<tr>
<td>subgingival 24.31</td>
<td></td>
</tr>
<tr>
<td>tendon 83.39</td>
<td></td>
</tr>
<tr>
<td>sheath 83.31</td>
<td></td>
</tr>
<tr>
<td>hand 82.21</td>
<td></td>
</tr>
<tr>
<td>uterus (with dilation) 69.09</td>
<td></td>
</tr>
<tr>
<td>aspiration (diagnostic) NEC 69.59</td>
<td></td>
</tr>
<tr>
<td>after abortion or delivery 69.52</td>
<td></td>
</tr>
<tr>
<td>to terminate pregnancy 69.51</td>
<td></td>
</tr>
<tr>
<td>following delivery or abortion 69.02</td>
<td></td>
</tr>
<tr>
<td>Curette evacuation, lens 13.2</td>
<td></td>
</tr>
<tr>
<td>Curtis operation (interphalangeal joint arthroplasty) 81.72</td>
<td></td>
</tr>
<tr>
<td>Cutaneolipectomy 86.83</td>
<td></td>
</tr>
<tr>
<td>Cutdown, venous 38.94</td>
<td></td>
</tr>
<tr>
<td>Cutting</td>
<td></td>
</tr>
<tr>
<td>nerve (cranial) (peripheral) NEC 04.03</td>
<td></td>
</tr>
<tr>
<td>--acoustic 04.01</td>
<td></td>
</tr>
<tr>
<td>--auditory 04.01</td>
<td></td>
</tr>
<tr>
<td>--root, spinal 03.1</td>
<td></td>
</tr>
<tr>
<td>--sympathetic 05.0</td>
<td></td>
</tr>
<tr>
<td>--trigeminal 04.02</td>
<td></td>
</tr>
<tr>
<td>--vestibular 04.01</td>
<td></td>
</tr>
<tr>
<td>pedicle (flap) graft 86.71</td>
<td></td>
</tr>
<tr>
<td>pylorus (with wedge resection) 43.3</td>
<td></td>
</tr>
<tr>
<td>spinal nerve root 03.1</td>
<td></td>
</tr>
<tr>
<td>ureterovesical orifice 56.1</td>
<td></td>
</tr>
<tr>
<td>urethral sphincter 58.5</td>
<td></td>
</tr>
<tr>
<td>CVP (central venous pressure monitoring) 89.62</td>
<td></td>
</tr>
</tbody>
</table>
Cyclectomy (ciliary body) 12.44
  eyelid margin 08.20
Cyclicitomy 12.55
Cyloaneemization 12.74
Cylocryotherapy 12.72
Cycloidialysis (initial) (subsequent) 12.55
Cycloidathermy (penetrating) (surface) 12.71
Cyloectomy 12.71
Cyclophotocoagulation 12.73
Cyclotomy 12.55
Cystectomy --see also Excision, lesion, by site
  gallbladder --see Cholecystectomy
  urinary (partial) (subtotal) 57.6
    complete (with urethrectomy) 57.79
    radical 57.71
    with pelvic exenteration (female) 68.8
    total (with urethrectomy) 57.79
Cystocystostomy 57.88
Cystogram, cystography NEC 87.77
Cystolitholapaxy 57.0
Cystolithotomy 57.19
Cystometrogram 89.22
Cystopexy NEC 57.89
Cystoplasty NEC 57.89
Cystoproctostomy 57.88
Cystoprostatectomy, radical 57.71
Cystopyelography 87.74
Cystorrhaphy 57.81

Cystoscopy (transurethral) 57.32
  with biopsy 57.33
  for
    control of hemorrhage
      bladder 57.93
    prostate 60.94
    retrograde pyelography 87.74
  ileal conduit 56.35
  through stoma (artificial) 57.31
Cystostomy
  closed (suprapubic) (percutaneous) 57.17
  open (suprapubic) 57.18
  percutaneous (closed) (suprapubic) 57.17
  suprapubic
    closed 57.17
    open 57.18
Cystotomy (open) (for removal of calculi) 57.19
Cystourethrogram (retrograde) (voiding) 87.76
Cystourethropexy (by) 59.79
  levator muscle sling 59.71
  retropubic suspension 59.5
  suprapubic suspension 59.4
Cystourethroplasty 57.85
Cystourethroscope 57.32
  with biopsy
    bladder 57.33
  ureter 56.33
Cytology --see Examination, microscopic
da Vinci® (S HD) Surgical System
  - see category 17.4

Dacryoadenectomy 09.20
  partial 09.22
  total 09.23

Dacryoadenotomy 09.0

Dacryocystectomy (complete) (partial) 09.6

Dacryocystogram 87.05

Dacryocystorhinostomy (DCR) (by intubation) (external) (intranasal) 09.81

Dacryocystostomy 09.53

Dacryocystosyringotomy 09.53

Dacryocystotomy 09.53

Dahlman operation (excision of esophageal diverticulum) 42.31

Dana operation (posterior rhizotomy) 03.1

Danforth operation (fetal) 73.8

Darrach operation (ulnar resection) 77.83

Davis operation (intubated ureterotomy) 56.2

Deaf training 95.49

Debridement
  abdominal wall 54.3
  bone--see also Excision, lesion, bone 77.60
    fracture--see Debridement, open fracture
  brain 01.59
  burn (skin) 86.28
  bursa 83.5
    excisional 86.22
    nonexcisional 86.28
  cerebral meninges 01.51
  dental 96.54
  fascia 83.39
  flap graft 86.75
  graft (flap) (pedicle) 86.75
  heart valve (calcified)
    --see Valvuloplasty, heart infection (skin) 86.28
    excisional 86.22
    nail (bed) (fold) 86.27
    nonexcisional 86.28
  joint--see Excision, lesion, joint meninges (cerebral) 01.51
    spinal 03.4
  muscle 83.45
  hand 82.36
  nail (bed) (fold) 86.27
  nerve (peripheral) 04.07
  open fracture (compound) 79.60
    arm NEC 79.62
    carpal, metacarpal 79.63
    facial bone 76.2
    femur 79.65

Debridement--open fracture--Cont.
  fibula 79.66
  foot NEC 79.67
  hand NEC 79.63
  humerus 79.61
  leg NEC 79.66
  phalanges
    foot 79.68
    hand 79.64
  radius 79.62
  specified site NEC 79.69
  tarsal, metatarsal 79.67
  tibia 79.66
  ulna 79.62
  patella 79.66
  pedicle graft 86.75
  skin or subcutaneous tissue (burn)
    (infection) (wound) 86.28
    cardioverter/defibrillator
      (automatic) pocket 37.79
      excisional 86.22
      graft 86.75
      nail, nail bed, or nail fold 86.27
      nonexcisional 86.28
      pacemaker pocket 37.79
      pocket
        cardiac device NEC 37.79
        cardiac pacemaker 37.79
        cardioverter/defibrillator
          (automatic) 37.79
      skull 01.25
      compound fracture 02.02
      spinal cord (meninges) 03.4
      tendon 83.39
      Versajet™ 86.28
      wound (skin) 86.28
      excisional 86.22
      nonexcisional 86.28

Decapitation, fetal 73.8

Decapsulation, kidney 55.91

Declotting--see also Removal, thrombus arteriovenous cannula or shunt 39.49

Decompression
  anus (imperforate) 48.0
  biliary tract 51.49
    by intubation 51.43
    endoscopic 51.87
    percutaneous 51.98
  brain 01.24
  carpal tunnel 04.43
  cauda equina 03.09
  chamber 93.97
  colon 96.08
    by incision 45.03
    endoscopic (balloon) 46.85
Decompression --Cont.
common bile duct 51.42
  by intubation 51.43
  endoscopic 51.87
  percutaneous 51.98
cranial 01.24
  for skull fracture 02.02
endolymphatic sac 20.79
ganglion (peripheral) NEC 04.49
cranial NEC 04.42
gastric 96.07
heart 37.0
intestine 96.08
  by incision 45.00
  endoscopic (balloon) 46.85
intracranial 01.24
labyrinth 20.79
laminectomy 03.09
laminotomy 03.09
median nerve 04.43
muscle 83.02
  hand 82.02
nerve (peripheral) NEC 04.42
  auditory 04.42
  cranial NEC 04.42
  median 04.43
  trigeminal (root) 04.41
orbit --see also Orbitotomy 16.09
pancreatic duct 52.92
  endoscopic 52.93
pericardium 37.0
rectum 48.0
skull fracture 02.02
spinal cord (canal) 03.09
tarsal tunnel 04.44
tendon (sheath) 83.01
  hand 82.01
thoracic outlet
  by
    myotomy (division of scalenus anticus muscle) 83.19
    tenotomy 83.13
  trigeminal (nerve root) 04.41
Decortication
  arterial 05.25
  brain 01.51
  cerebral meninges 01.51
  heart 37.31
  kidney 55.91
  lung (partial) (total) 34.51
  thoracoscopic 34.52
  nasal turbinates --see Turbinectomy
  nose 21.89
  ovary 65.29
  laparoscopic 65.25
  periarterial 05.25
  pericardium 37.31
  ventricle, heart (complete) 37.31
Decoy, E2F 00.16

Deepening
  alveolar ridge 24.5
  buccolabial sulcus 24.91
  lingual sulcus 24.91
Defatting, flap or pedicle graft 86.75
Defibrillation, electric (external)(internal) 99.62
  automatic cardioverter/defibrillator
    --see category 37.9
de Grandmont operation (tarsectomy) 08.35
Delaying of pedicle graft 86.71
Delivery (with)
  assisted spontaneous 73.59
  breech extraction (assisted) 72.52
    partial 72.51
    total 72.54
  with forceps to aftercoming head 72.51
  unassisted (spontaneous delivery)
    --omit code
cesarean section --see Cesarean section
  Credé maneuver 73.59
  De Lee maneuver 72.4
  forceps 72.9
    application to aftercoming head (Piper) 72.6
    with breech extraction
      partial 72.51
      total 72.53
  Barton's 72.4
  failed 73.3
  high 72.39
  with episiotomy 72.31
  low (outlet) 72.0
  with episiotomy 72.0
  mid 72.29
  with episiotomy 72.21
  outlet (low) 72.0
  with episiotomy 72.1
  rotation of fetal head 72.4
  trial 73.3
  instrumental NEC 72.9
  specified NEC 72.8
  key- in- lock rotation 72.4
  Kielland rotation 72.4
  Malstrom's extraction 72.71
  with episiotomy 72.71
  manually assisted (spontaneous) 73.59
  spontaneous (unassisted) 73.59
  assisted 73.59
  vacuum extraction 72.79
  with episiotomy 72.71
Delorme operation
  pericardiectomy 37.31
  proctopexy 48.76
  repair of prolapsed rectum 48.76
  thoracoplasty 33.34
**Denervation**
- aortic body 39.8
- carotid body 39.8
- facet, percutaneous (radiofrequency) 03.96
- ovarian 65.94
- paracervical uterine 69.3
- uterosacral 69.3

**Denker operation** (radical maxillary antrotomy) 22.31

**Dennis-Barco operation** --see Repair, hernia, femoral

**Denonvillier operation** (limited rhinoplasty) 21.86

**Densitometry, bone** (serial) (radiographic) 88.98

**Depilation, skin** 86.92

**Derlacki operation** (tympanoplasty) 19.4

**Dermabond** 86.59

**Dermabrasion** (laser) 86.25

---for wound debridement 86.28

**Derotation** --see Reduction, torsion

**Desensitization**
- allergy 99.12
- psychologic 94.33

**Desmotomy** --see also Division, ligament 80.40

**Destruction**
- breast 85.20
- chorioretinopathy --see also Destruction, lesion, choroid 14.29
- ciliary body 12.74
- epithelial downgrowth, anterior chamber 12.93
- fallopian tube 66.39
- with
  - crushing (and ligation) 66.31
  - by endoscopy (laparoscopy) 66.21
  - division (and ligation) 66.32
  - by endoscopy (culdoscopy)
    - (hysteroscopy) (laparoscopy) 66.22
  - ligation 66.39
  - with
    - crushing 66.31
    - by endoscopy (laparoscopy) 66.21
    - division 66.32
    - by endoscopy (culdoscopy)
      - (hysteroscopy) (laparoscopy) (peritoneoscopy) 66.22
- fetus 73.8
- hemorrhoids 49.49
  - by
    - cryotherapy 49.44
    - sclerotherapy 49.42
- inner ear NEC 20.79
  - by injection 20.72

**Destruction** ---Cont.
- intervertebral disc (NOS) 80.50
  - by injection 80.52
  - by other specified method 80.59
- herniated (nucleus pulposus) 80.51
- lacrimal sac 09.6
- LAA 37.36
- left atrial appendage 37.36
- lesion (local)
  - anus 49.39
    - endoscopic 49.31
  - Bartholin's gland 71.24
    - by aspiration 71.21
    - excision 71.24
    - incision 71.22
    - marsupialization 71.23
  - biliary ducts 51.69
    - endoscopic 51.64
  - bladder 57.59
    - transurethral 57.49
  - bone --see Excision, lesion, bone
  - bowel --see Destruction, lesion, intestine
  - brain (transtemporal approach) NEC 01.59
    - by stereotactic radiosurgery 92.30
      - cobalt 60 92.32
      - linear accelerator (LINAC) 92.31
      - multi-source 92.32
      - particle beam 92.33
      - particulate 92.33
      - radiosurgery NEC 92.39
      - single source photon 92.31
  - breast NEC 85.20
  - bronchus NEC 32.09
  - endoscopic 32.01
  - cerebral NEC 01.59
  - meninges 01.51
  - cervix 67.39
    - by
      - cauteration 67.32
      - cryosurgery, cryoconization 67.33
      - electroconization 67.32
  - choroid 14.29
    - by
      - cryotherapy 14.22
      - diathermy 14.21
      - implantation of radiation source 14.27
      - photocoagulation 14.25
      - laser 14.24
      - xenon arc 14.23
  - radiation therapy 14.26
  - ciliary body (nonexcisional) 12.43
    - by excision 12.44
    - conjunctiva 10.32
    - by excision 10.31
**Destruction - lesion (local)**  
- cornea NEC 11.49  
  - by  
    - cryotherapy 11.43  
    - electrocauterization 11.42  
    - thermocauterization 11.42  
  - cul-de-sac 70.32  
  - duodenum NEC 45.32  
    - by excision 45.31  
    - endoscopic 45.30  
    - endoscopic 45.30  
  - esophagus (chemosurgery) (cryosurgery) (electroresection) (fulguration) NEC 42.39  
    - by excision 42.32  
    - endoscopic 42.33  
    - endoscopic 42.33  
  - eye NEC 16.93  
  - eyebrow 08.25  
  - eyelid 08.25  
    - excisional—see Excision, lesion, eyelid  
  - heart  
    - by catheter ablation 37.34  
    - by endovascular approach 37.34  
    - by open approach 37.33  
    - left atrial appendage 37.36  
  - intestine (large) 45.49  
    - by excision 45.41  
    - endoscopic 45.43  
    - polypectomy 45.42  
    - endoscopic 45.43  
    - polypectomy 45.42  
    - small 45.34  
    - by excision 45.33  
  - intranasal 21.31  
  - iris (nonexcisional) NEC 12.41  
  - kidney 55.39  
    - by marsupialization 55.31  
  - lacrimal sac 09.6  
  - larynx 30.09  
  - liver 50.29  
  - lung 32.29  
    - endoscopic 32.28  
  - meninges (cerebral) 01.51  
  - spinal 03.4  
  - nerve (peripheral) 04.07  
  - sympathetic 05.29  
  - nose 21.30  
    - intranasal 21.31  
    - specified NEC 21.32  
  - ovary  
    - by  
      - aspiration 65.91  
      - excision 65.29  
      - laparoscopic 65.25  
      - cyst by rupture (manual) 65.93  
      - palate (bony) (local) 27.31  
    - wide 27.32  
  - pancreas 52.22  
    - by marsupialization 52.3  
    - endoscopic 52.21  
  - pancreatic duct 52.22  
    - endoscopic 52.21  
  - penis 64.2  
  - pharynx (excisional) 29.39  
  - pituitary gland  
    - by stereotactic radiosurgery 92.30  
    - cobalt 60 92.32  
    - linear accelerator (LINAC) 92.31  
    - multi-source 92.32  
    - particle beam 92.33  
    - particulate 92.33  
    - radiosurgery NEC 92.39  
    - single source photon 92.31  
  - rectum (local) 48.32  
    - by  
      - cryosurgery 48.34  
      - electrocoagulation 48.32  
      - excision 48.35  
      - fulguration 48.32  
      - laser (Argon) 48.33  
      - polyp 48.36  
      - radical 48.31  
  - retina 14.29  
    - by  
      - cryotherapy 14.22  
      - diathermy 14.21  
      - implantation of radiation source 14.27  
      - photocoagulation 14.25  
      - laser 14.24  
      - xenon arc 14.23  
      - radiation therapy 14.26  
  - salivary gland NEC 26.29  
    - by marsupialization 26.21  
  - sclera 12.84  
  - scrotum 61.3  
  - skin NEC 86.3  
  - sphincter of Oddi 51.69  
    - endoscopic 51.64  
  - spinal cord (meninges) 03.4  
  - spleen 41.42  
    - by marsupialization 41.41  
  - stomach NEC 43.49  
    - by excision 43.42  
    - endoscopic 43.41  
    - endoscopic 43.41  
  - subcutaneous tissue NEC 86.3  
  - testis 62.2  
  - tongue 25.1  
  - urethra (excisional) 58.39  
    - endoscopic 58.31  
  - uterus 68.29  
  - nerve (cranial) (peripheral) (by cryo-analgesia) (by radiofrequency) 04.2  
  - sympathetic, by injection of neurolytic agent 05.32
Destruction  ---  Cont.

- **neuroma**
  - acoustic 04.01
    - by craniotomy 04.01
    - by stereotactic radiosurgery 92.30
  - cobalt 60 92.32
  - linear accelerator (LINAC) 92.31
  - multi-source 92.32
  - particle beam 92.33
  - particulate 92.33
  - radiosurgery NEC 92.39
  - single source photon 92.31
  - cranial 04.07
  - Morton's 04.07
  - peripheral
    - Morton's 04.07
  - prostate (prostatic tissue)
    - by cryotherapy 60.62
    - microwave 60.96
    - radiofrequency 60.97
  - transurethral microwave thermotherapy (TUMT) 60.96
  - transurethral needle ablation (TUNA) 60.97
  - TULIP (transurethral ultrasound guided laser induced prostatectomy) 60.21
  - TUMT (transurethral microwave thermotherapy) 60.96
  - TUNA (transurethral needle ablation) 60.97
  - semicircular canals, by injection 20.72
  - vestibule, by injection 20.72

Detachment, uterosacral ligaments 69.3

Determination

- mental status (clinical) (medico-legal) (psychiatric) NEC 94.11
- psychologic NEC 94.09
- vital capacity (pulmonary) 89.37

Detorsion

- intestine (twisted) (volvulus) 46.80
  - large 46.82
  - endoscopic (balloon) 46.85
  - small 46.81
  - kidney 55.84
  - ovary 65.95
  - spermatic cord 63.52
    - with orchiopexy 62.5
  - testis 63.52
    - with orchiopexy 62.5
  - volvulus 46.80
    - endoscopic (balloon) 46.85

Detoxification therapy 94.25

- alcohol 94.62
  - with rehabilitation 94.63
  - combined alcohol and drug 94.68
    - with rehabilitation 94.69

Detoxification therapy  ---  Cont

- drug 94.65
  - with rehabilitation 94.66
  - combined alcohol and drug 94.68
    - with rehabilitation 94.69

Dewebbing

- esophagus 42.01
- syndactyly (fingers) (toes) 86.85

Dextrorotation --- see Reduction, torsion

Dialysis

- hemodiafiltration, hemofiltration (extracorporeal) 39.95
- kidney (extracorporeal) 39.95
- liver 50.92
- peritoneal 54.98
- renal (extracorporeal) 39.95

Diaphanoscopy

- nasal sinuses 89.35
- skull (newborn) 89.16

Diaphysectomy --- see category 77.8

Diathermy 93.34

- choroid --- see Diathermy, retina
- nasal turbinates 21.61
- retina
  - for destruction of lesion 14.21
  - reattachment 14.51
  - repair of tear 14.31
- surgical --- see Destruction, lesion, by site
  - turbinates (nasal) 21.61

Dickson operation (fascial transplant) 83.82

Dickson-Diveley operation (tendon transfer and arthrodesis to correct claw toe) 77.57

Diefenbach operation (hip disarticulation) 84.18

Dilation

- achalasia 42.92
- ampulla of Vater 51.81
  - endoscopic 51.84
- anus, anal (sphincter) 96.23
- biliary duct
  - endoscopic 51.84
  - pancreatic duct 52.99
    - endoscopic 52.98
  - percutaneous (endoscopy) 51.98
  - sphincter of Oddi 51.81
    - endoscopic 51.84
  - pancreatic 51.82
    - endoscopic 51.85
- bladder 96.25
- neck 57.92
- bronchus 33.91
Dilation ----Cont.
cervix (canal) 67.0
obstetrical 73.1
to assist delivery 73.1
choanae (nasopharynx) 29.91
colon (endoscopic) (balloon) 46.85
with insertion of colonic stent
endoscopic 46.86
other 46.87
colostomy stoma 96.24
duodenum (endoscopic) (balloon) 46.85
with insertion of colonic stent
endoscopic 46.86
other 46.87
endoscopic --see Dilation, by site
enterostomy stoma 96.24
esophagus (by bougie) (by sound) 42.92
fallopian tube 66.96
foreskin (newborn) 99.95
frononasal duct 96.21
gastrojejunostomy site, endoscopic 44.22
heart valve --see Valvulotomy, heart
ileostomy stoma 96.24
ileum (endoscopic) (balloon) 46.85
with insertion of colonic stent
endoscopic 46.86
other 46.87
intestinal stoma (artificial) 96.24
intestine (endoscopic) (balloon) 46.85
with insertion of colonic stent
endoscopic 46.86
other 46.87
jejenum (endoscopic) (balloon) 46.85
with insertion of colonic stent
endoscopic 46.86
other 46.87
lacrimal duct 09.42
punctum 09.41
larnyx 31.98
lymphatic structure(s) (peripheral) 40.9
nares 21.99
nasolacrimal duct (retrograde) 09.43
with insertion of tube or stent 09.44
nasopharynx 29.91
pancreatic duct 52.99
endoscopic 52.98
pharynx 29.91
prostatic urethra (transurethral) (balloon) 60.95
punctum, lacrimal papilla 09.41
pylorus
by incision 44.21
endoscopic 44.22
rectum 96.22
salivary duct 26.91
sphenoid ostia 22.52
spincter anal 96.23

Dilation - sphincter ----Cont.
cardiac 42.92
of Oddi 51.81
endoscopic 51.84
pancreatic 51.82
endoscopic 51.85
pylorus, endoscopic 44.22
by incision 44.21
Stenson's duct 26.91
trachea 31.99
ureter 59.8
meatus 56.91
ureterovesical orifice 59.8
urethra 58.6
prostatic (transurethral) (balloon) 60.95
urethrovical junction 58.6
vagina (instrumental) (manual) NEC 96.16
vesical neck 57.92
Wharton's duct 26.91
Wirsung's duct 52.99
endoscopic 52.98

Dilation and curettage, uterus (diagnostic) 69.09
after abortion 69.02
delivery 69.02
to terminate pregnancy 69.01

Diminution, ciliary body 12.74

Disarticulation 84.91
ankle 84.13
elbow 84.06
finger, except thumb 84.01
thumb 84.02
hip 84.18
knee 84.16
shoulder 84.08
thumb 84.02
toe 84.11
wrist 84.04

Discectomy - - see Diskectomy

Discussion
capsular membrane 13.64
cataract (Wheeler knife) (Ziegler knife)
iris 12.12
congenital 13.69
secondary membrane 13.64
orbitomaxillary, radical 16.51
pupillary 13.2
secondary membrane (after cataract) 13.64
vitreous strands (posterior approach) 14.74
anterior approach 14.73

Discogram, diskogram 87.21

Discolysis (by injection) 80.52
Discectomy (discectomy), intervertebral 80.51
  with corpectomy 80.99
  herniated (nucleus pulposus) 80.51
  percutaneous 80.59

Dispensing (with fitting)
  contact lens 95.32
  low vision aids NEC 95.33
  spectacles 95.31

Disruption
  blood brain barrier via infusion [BBBD] 00.19

Dissection
  --see also Excision
  aneurysm 38.60
  artery-vein-nerve bundle 39.91
  branchial cleft fistula or sinus 29.52
  bronchus 32.1
  femoral hernia 53.29
  groin, radical 40.54
  larynx block (en bloc) 30.3
  mediastinum with pneumonectomy 32.59
    thoracoscopic 32.50
  neck, radical 40.40
    with laryngectomy 30.4
    bilateral 40.42
    unilateral 40.41
  orbital fibrous bands 16.92
  pterygium (with reposition) 11.31
  radical neck --see Dissection, neck, radical retroperitoneal NEC 59.00
  thoracic structures (block) (en bloc) (radical) (brachial plexus, bronchus, lobe of lung, ribs, and sympathetic nerves) 32.6
  vascular bundle 39.91

Distention, bladder (therapeutic)
  (intermittent) 96.25

Division
  Achilles tendon 83.11
  adductor tendon (hip) 83.12
  adhesions --see Lysis, adhesions
    angle of mandible (open) 76.62
    closed 76.61
  anterior synechiae 12.32
  aponeurosis 83.13
  arcuate ligament (spine) --omit code
  arteriovenous fistula (with ligation) 39.53
  artery (with ligation) 38.80
    abdominal 38.86
    aorta (arch) (ascending) (descending) 38.84
    head and neck NEC 38.82
    intracranial NEC 38.81
    lower limb 38.88
    thoracic NEC 38.85
    upper limb 38.83
  bladder neck 57.91
  blepharorrhaphy 08.02
  bone --see also Osteotomy 77.30
  blood vessels, cornea 10.1
  brain tissue 01.32
  cortical adhesions 02.91
  canaliculus 09.52
  canthorrhaphy 08.02
  cartilage 80.40
    ankle 80.47
    elbow 80.42
    foot and toe 80.48
    hand and finger 80.44
    hip 80.45
    knee 80.46
    shoulder 80.41
  chordae tendineae 35.32
  cerebral tracts 01.32
  common wall between posterior left atrium and coronary sinus (with roofing of resultant defect with patch graft) 35.82
  intestine
    large 45.41
      endoscopic 45.43
    small 45.33
    kidney 55.39
    Meckel's 45.33
    pharyngeal (by cricopharyngeal myotomy) 29.32
    pharyngoesophageal (by crico-pharyngeal myotomy) 29.32
    stomach 43.42
      endoscopic 43.41
    urethra 58.39
      endoscopic 58.31

Diverticulectomy
  --Cont.
    bladder (suprapubic) 57.59
      transurethral approach 57.49
    duodenum 45.31
      endoscopic 45.30
    esophagus 42.31
      endoscopic 42.33
    esophagomyotomy 42.7
    hypopharyngeal (by cricopharyngeal myotomy) 29.32
    intestine
      large 45.41
        endoscopic 45.43
      small 45.33
    kidney 55.39
    Meckel's 45.33
    pharyngeal (by cricopharyngeal myotomy) 29.32
    pharyngoesophageal (by cricopharyngeal myotomy) 29.32
    stomach 43.42
      endoscopic 43.41
    urethra 58.39
      endoscopic 58.31

Diverticulotomy
  bladder (suprapubic) 57.59
  transurethral approach 57.49
  duodenum 45.31
  endoscopic 45.30
  esophagus 42.31
  endoscopic 42.33
  esophagomyotomy 42.7
  hypopharyngeal (by cricopharyngeal myotomy) 29.32
Division --Cont.
congenital web
  larynx 31.98
  pharynx 29.54
endometrial synechiae 68.21
fallopian tube
  --see Ligation, fallopian tube
fascia 83.14
  hand 82.12
frenulum, frenum
  labial 27.91
  lingual 25.91
  tongue 25.91
ganglion, sympathetic 05.0
glossopharyngeal nerve 29.92
goniosynechiae 12.31
hypophyseal stalk
  --see also Hypophysectomy, partial 07.63
  Hypophysectomy, partial 07.63
iliotibial band 83.14
isthmus
  horseshoe kidney 55.85
  thyroid 06.91
joint capsule
  ankle 80.40
  elbow 80.42
  foot and toe 80.48
  hand and finger 80.44
  hip 80.45
  knee 80.46
  shoulder 80.41
  specified site NEC 80.49
  wrist 80.43
labial frenum 27.91
lacrimal ductules 09.0
laryngeal nerve (external) (recurrent)
  (superior) 31.91
ligament 80.40
  ankle 80.47
  arcuate (spine) --omit code
  canthral 08.36
  elbow 80.42
  foot and toe 80.48
  hand and finger 80.44
  hip 80.45
  knee 80.46
  specified site NEC 80.49
  wrist 80.43
laryngeal nerve (recurrent) (superior) 31.91
ligamentum
  flavum (spine) --omit code
  meninges (cerebral) 01.31
muscle 83.19
  hand 82.19
nasolacrimal duct stricture (with drainage) 09.59
Division --Cont.
nerve (cranial) (peripheral) NEC 04.03
  acoustic 04.01
  adrenal gland 07.42
  auditory 04.01
  glossopharyngeal 29.92
  lacrimal branch 05.0
  laryngeal (external) (recurrent)
    (superior) 31.91
  phrenic 04.03
  for collapse of lung 33.31
  root, spinal or intraspinal 03.1
  sympathetic 05.0
  tracts
    cerebral 01.32
    spinal cord 03.29
    percutaneous 03.21
    trigeminal 04.02
  vagus --see also Vagotomy 44.00
  vestibular 04.01
otosclerotic process or material, middle ear 19.0
  papillary muscle (heart) 35.31
  patent ductus arteriosus 38.85
  penile adhesions 64.93
  posterior synechiae 12.33
  pylorus (with wedge resection) 43.3
  rectum (stricture) 48.91
  scalenus anticus muscle 83.19
  Skene's gland 71.3
  soft tissue NEC 83.19
  hand 82.19
  sphincter
    anal (external) (internal) 49.59
    left lateral 49.51
    posterior 49.52
    cardiac 42.7
    of Oddi 51.82
    endoscopic 51.85
    pancreatic 51.82
    endoscopic 51.85
spinal
  cord tracts 03.29
  percutaneous 03.21
  nerve root 03.1
  symblepharon (with insertion of conformer) 10.5
symneichae
  endometrial 68.21
  iris (posterior) 12.33
  anterior 12.32
tarsorrhaphy 08.02
tendon 83.13
  Achilles 83.11
  adductor (hip) 83.12
  hand 82.11
  trabeculae carneae cordis (heart) 35.35
tympanum 20.23
  uterosacral ligaments 69.3
Division --Cont.
vaginal septum 70.14
vas deferens 63.71
vein (with ligation) 38.80
  abdominal 38.87
  head and neck NEC 38.82
  intracranial NEC 38.81
lower limb 38.89
  varicose 38.59
  thoracic NEC 38.85
upper limb 38.83
  varicose 38.50
  abdominal 38.57
  head and neck NEC 38.52
  intracranial NEC 38.51
  lower limb 38.59
  thoracic NEC 38.55
  upper limb 38.53
vitreous, cicatricial bands (posterior approach) 14.74
  anterior approach 14.73
Doleris operation (shortening of round ligaments) 69.22
D’Ombrain operation (excision of pterygium with corneal graft) 11.32
Domestic tasks therapy 93.83
Dopplergram, Doppler flow mapping
  --see also Ultrasonography
  aortic arch 88.73
  head and neck 88.71
  heart 88.72
  thorax NEC 88.73
Dorrance operation (push-back operation for cleft palate) 27.62
Dotter operation (transluminal angioplasty) 39.59
Douche, vagina 96.44
Douglas’ operation (suture of tongue to lip for micrognathia) 25.59
Downstream® System (AO therapy) (aqueous oxygen) 00.49
Doyle operation (paracervical uterine denervation) 69.3
Drainage
by
  anastomosis --see Anastomosis
  aspiration --see Aspiration
  incision --see Incision
  abdomen 54.19
    percutaneous 54.91
  abscess --see also Drainage, by site and incision, by site
    appendix 47.2
      with appendectomy 47.09
      laparoscopic 47.01
    parapharyngeal(oral)(transcervical) 28.0
    peritonsillar (oral) (transcervical) 28.0
    retropharyngeal(oral)(transcervical) 28.0
Drainage --abscess --Cont.
  thyroid (field) (gland) 06.09
    percutaneous (needle) 06.01
    postoperative 06.02
  tonsil, tonsillar(oral)(transcervical) 28.0
  antecubital fossa 86.04
  appendix 47.91
    with appendectomy 47.09
    laparoscopic 47.01
  abscess 47.2
    with appendectomy 47.09
    laparoscopic 47.01
  axilla 86.04
  bladder (without incision) 57.0
    by indwelling catheter 57.94
    percutaneous suprapubic (closed) 57.17
    suprapubic NEC 57.18
  buccal space 27.0
  bursa 83.03
    by aspiration 83.94
    hand 82.92
    by aspiration 82.92
    radial 82.03
    ulnar 82.03
  cerebrum, cerebral (meninges) (ventricle) (incision) (trephination) 01.39
    by
      anastomosis --see Shunt, ventricular aspiration 01.09
      through previously implanted catheter 01.02
  chest (closed) 34.04
    open (by incision) 34.09
    thoracoscopic 34.06
  cranial sinus (incision) (trephination) 01.21
    by aspiration 01.09
  cul-de-sac 70.12
    by aspiration 70.0
  cyst --see also Drainage, by site and incision, by site
  pancreas (by catheter) 52.01
    by marsupialization 52.3
    internal (anastomosis) 52.4
  pilonidal 86.03
  spleen, splenic(by marsupialization) 41.41
  duodenum (tube) 46.39
    by incision 45.01
  ear
    external 18.09
    inner 20.79
    middle (by myringotomy) 20.09
      with intubation 20.01
  epidural space, cerebral (incision) (trephination) 01.24
    by aspiration 01.09
  extradural space, cerebral (incision) (trephination) 01.24
    by aspiration 01.09
### Drainage ---Cont.

<table>
<thead>
<tr>
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<td>gallbladder</td>
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<td>by anastomosis</td>
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<td>groin region (abdominal wall) (inguinal)</td>
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<td>hematoma --see Drainage, by site and Incision, by site</td>
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<td>hydrocephalic head (needling) (trocar)</td>
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### Drainage ---Cont.

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<td>by aspiration</td>
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Drainage ---Cont.
thyroid (field) (gland) (by incision) 06.09
   by aspiration 06.01
   postoperative 06.02
tonsil 28.0
tunica vaginalis 61.0
ureter (by catheter) 59.8
   by
anastomosis NEC --see also
   Anastomosis, ureter 56.79
   incision 56.2
ventricle (cerebral) (incision) NEC 02.39
   by
anastomosis --see Shunt, ventricular
   aspiration 01.09
   through previously implanted
catheter 01.02
   vertebral column 03.09

Drawing test 94.08

Dressing
burn 93.57
   ulcer 93.56
   wound 93.57

Drilling
   bone --see also Incision, bone 77.10
   ovary 65.99

Drotrecogin alfa (activated), infusion 00.11

Ductogram, mammary 87.35

Duhamel operation (abdominoperineal pull-through) 46.65

Duhrssen's incisions (cervix, to assist delivery) 73.93
   operation (vaginofixation of uterus) 69.22

Dunn operation (triple arthrodesis) 81.12

Duodenectomy 45.62
   with
   gastrectomy --see Gastrectomy
   pancreatectomy --see Pancreatectomy

Duodenocholedochotomy 51.51

Duodenoduodenostomy 45.91
   proximal to distal segment 45.62

Duodenileostomy 45.91

Duodenojejunostomy 45.91

Duodenorrhaphy 46.71

Duodenoplasty 46.79

Duodenoendoscopy 45.13
   through stoma (artificial) 45.12
   transabdominal (operative) 45.11

Duodenostomy 46.39

Duodenotomy 45.01

Dupuytren operation
   fasciectomy 82.35
   fasciotomy 82.12
   with excision 82.35
   shoulder disarticulation 84.08

Durabond 86.59

Duralplasty 02.12

Durham (-Caldwell) operation
   (transfer of biceps femoris tendon) 83.75

DuToit and Roux operation (staple capsulorrhaphy of shoulder) 81.82

DuVries operation (tenoplasty) 83.88

Dwyer operation
   fasciectomy 83.14
   soft tissue release NEC 83.84
   wedge osteotomy, calcaneus 77.28
E2F decoy 00.16
Eagleton operation (extrapetrosal drainage) 20.22
ECG --see Electrocardiogram
Echocardiography 88.72
intracardiac (heart chambers) (ICE) 37.28
intravascular (coronary vessels) 00.24
transesophageal 88.72
monitoring (Doppler) (ultrasound) 89.68
Echoencephalography 88.71
Echography --see Ultrasonography
Echogynography 88.79
Echoplacentogram 88.78
ECMO (extracorporeal membrane oxygenation) 39.65
Eden-Hybinette operation (glenoid bone block) 78.01
Educational therapy (bed-bound children) (handicapped) 93.82
EEG (electroencephalogram) 89.14
monitoring (radiographic) (video) 89.19
Effler operation (heart) 36.2
Effleurage 93.39
EGD (esophagogastroduodenoscopy) 45.13
with closed biopsy 45.16
Eggers operation
tendon release (patellar retinacula) 83.13
tendon transfer (biceps femoris tendon) (hamstring tendon) 83.75
EKG --see also Electrocardiogram 89.52
Elastic hosiery 93.59
Electrocardiogram (with 12 or more leads) 89.52
with vectorcardiogram 89.53
fetal (scalp), intrauterine 75.32
rhythm (with one to three leads) 89.51
Electrocautery --see also Cauterization
cervix 67.32
corneal lesion (ulcer) 11.42
esophagus 42.39
endoscopic 42.33
Electrocoagulation --see also Destruction, lesion, by site
aneurysm (cerebral) (peripheral vessels) 39.52
cervix 67.32
cystoscopic 57.49
ear
external 18.29
inner 20.79
middle 20.51
fallopian tube (lesion) 66.61
for tubal ligation --see Ligation, fallopian tube
gasserian ganglion 04.02
Electrocoagulation ---Cont.
nasal turbinates 21.61
nose, for epistaxis (with packing) 21.03
ovary 65.29
laparoscopic 65.25
prostatic bed 60.94
rectum (polypl) 48.32
radical 48.31
retina (for)
destruction of lesion 14.21
reattachment 14.51
repair of tear 14.31
round ligament 69.19
semicircular canals 20.79
urethrovaginal junction, transurethral 57.49
uterine ligament 69.19
uterine tube, transumbilical 69.19
uterus 68.29
vagina 70.33
vulva 71.3
Electrocochleography 20.31
Electrocoagulation, cervix 67.32
Electroconvulsive therapy (ECT) 94.27
Electroencephalogram (EEG) 89.14
monitoring (radiographic) (video) 89.19
Electrogastrogram 44.19
Electrokeratotomy 11.49
Electrolysis
ciliary body 12.71
hair follicle 86.92
retina (for)
destruction of lesion 14.21
reattachment 14.51
repair of tear 14.31
skin 86.92
subcutaneous tissue 86.92
Electromyogram, electromyography (EMG) (muscle) 93.08
eye 95.25
urethral sphincter 89.23
Electronarcosis 94.29
Electronic gaiter 93.59
Electronystagmogram (ENG) 95.24
Electro-oculogram (EOG) 95.22
Electroresection --see also Destruction, lesion, by site
bladder neck (transurethral) 57.49
esophagus 42.39
endoscopic 42.33
prostate (transurethral) 60.29
stomach 43.49
endoscopic 43.41
Electoretinogram (ERG) 95.21
Electroshock therapy (EST) 94.27
subconvulsive 94.26
**Elevation**
- bone fragments (fractured) 76.79
- sinus (nasal)
  - frontal 22.79
  - maxillary 22.79
- skull (with debridement) 02.02
- spinal 03.53
- pedicle graft 86.71

**Elliot operation** (scleral trephination with iridectomy) 12.61

**Ellis Jones operation** (repair of peroneal tendon) 83.88

**Ellison operation** (reinforcement of collateral ligament) 81.44

**Elmslie-Cholmeley operation** (tarsal wedge osteotomy) 77.28

**Eloesser operation**
- thoracoplasty 33.34
- thoracostomy 34.09

**Elongation** --see Lengthening

**Embolectomy** 38.00
- with endarterectomy --see Endarterectomy
  - abdominal 38.06
  - vein 38.07
  - aorta (arch) (ascending) (descending) 38.04
  - arteriovenous shunt or cannula 39.49
  - bovine graft 39.49
  - head and neck NEC 38.02
  - intracranial NEC 38.01
  - lower limb
    - artery 38.08
    - vein 38.09
  - mechanical
    - endovascular
      - head and neck 39.74
      - pulmonary (artery) (vein) 38.05
      - thoracic NEC 38.05
    - upper limb (artery) (vein) 38.03

**Embolization** (transcatheter)
- adhesive (glue) 39.79
- head and neck 39.72
- arteriovenous fistula 39.53
- endovascular 39.72
- artery (selective) 38.80
  - by
    - endovascular approach 39.79
      - head and neck vessels
        - bare coils 39.75
        - bioactive coils 39.76
      - percutaneous transcatheter infusion 99.29
      - abdominal NEC 38.86
      - duodenal (transcatheter) 44.44
      - gastric (transcatheter) 44.44
      - renal (transcatheter) 38.86

**Embolization** --artery --Cont.
- aorta (arch) (ascending) (descending) 38.84
  - duodenal (transcatheter) 44.44
  - gastric (transcatheter) 44.44
  - head and neck NEC 38.82
  - intracranial NEC 38.81
  - lower limb 38.88
  - renal (transcatheter) 38.86
  - thoracic NEC 38.85
  - upper limb 38.83
  - AVM, intracranial, endovascular approach 39.72
  - carotid cavernous fistula 39.53
  - chemoembolization 99.25
  - coil, endovascular 39.79
  - head and neck
    - bare coils 39.75
    - bioactive coils 39.76
  - vein (selective) 38.80
  - by
    - endovascular approach 39.79
      - head and neck 39.72
      - abdominal NEC 38.87
      - duodenal (transcatheter) 44.44
      - gastric (transcatheter) 44.44
      - duodenal (transcatheter) 44.44
      - gastric (transcatheter) 44.44

**Embryotomy** 73.8

**EMG** --see Electromyogram

**Emmet operation** (cervix) 67.61

**Encephalocentesis** --see also Puncture 01.09
- fetal head, transabdominal 73.8

**Encephalography** (cisternal puncture)
- (fractional) (lumbar) (pneumoencephalogram) 87.01

**Encephalopuncture** 01.09

**Encircling procedure** --see also Cerclage
- sclera, for buckling 14.49
  - with implant 14.41

**Endarterectomy** (gas) (with patch graft) 38.10
- abdominal 38.16
- aorta (arch) (ascending) (descending) 38.14
- coronary artery --see category 36.0
  - open chest approach 36.03
  - head and neck (open) NEC 38.12

**Note:** Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- percutaneous approach, intracranial vessel(s) 00.62
- percutaneous approach, precerebral (extracranial) vessel(s) 00.61
### Endarterectomy --Cont.

intracranial (open) NEC 38.11

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

percutaneous approach, intracranial vessel(s) 00.62
lower limb 38.18
thoracic NEC 38.15
upper limb 38.13

### Endoaneurysmorrhaphy

--see also Aneurysmorrhaphy 39.52
by or with endovascular graft
abdominal aorta 39.71
lower extremity artery(s) 39.79
thoracic aorta 39.73
upper extremity artery(s) 39.79

### Endolymphatic (-subarachnoid) shunt

20.71

### Endometrectomy

(uterine) (internal) 68.29
bladder 57.59
cul-de-sac 70.32

### Endoprosthesis

bile duct 51.87
femoral head (bipolar) 81.52

### Endoscopy

with biopsy --see Biopsy, by site, closed anus 49.21
biliary tract (operative) 51.11
by retrograde cholangiography (ERC) 51.11
by retrograde cholangiopancreatography (ERCP) 51.10
intraoperative 51.11
percutaneous (via T-tube or other tract) 51.98
with removal of common duct stones 51.96
bladder 57.32
through stoma (artificial) 57.31
bronchus NEC 33.23
with biopsy 33.24
fiberoptic 33.22
through stoma (artificial) 33.21
colon 45.23
through stoma (artificial) 45.22
transabdominal (operative) 45.21
cul-de-sac 70.22
ear 18.11
esophagus NEC 42.23
through stoma (artificial) 42.22
transabdominal (operative) 42.21

### Endoscopy --Cont.

ileum 45.13
through stoma (artificial) 45.12
transabdominal (operative) 45.11
intestine NEC 45.24
large 45.24
fiberoptic (flexible) 45.23
through stoma (artificial) 45.22
transabdominal (intraoperative) 45.21
small 45.13
esophagogastroduodenoscopy (EGD) 45.13
with closed biopsy 45.16
through stoma (artificial) 45.12
transabdominal (operative) 45.11
jejunum 45.13
through stoma (artificial) 45.12
transabdominal (operative) 45.11
kidney 55.21
larynx 31.42
through stoma (artificial) 31.41
lung --see Bronchoscopy
mediastinum (transpleural) 34.22
nasal sinus 22.19
nose 21.21
pancreatic duct 52.13
pelvis 55.22
peritoneum 54.21
pharynx 29.11
rectum 48.23
through stoma (artificial) 48.22
transabdominal (operative) 48.21
sinus, nasal 22.19
stomach NEC 44.13
through stoma (artificial) 44.12
transabdominal (operative) 44.11
thorax (transpleural) 34.21
trachea NEC 31.42
through stoma (artificial) 31.41
transpleural mediastinum 34.22
thorax 34.21
ureter 56.31
urethra 58.22
uterus 68.12
vagina 70.21

### Enema (transanal) NEC 96.39
for removal of impacted feces 96.38

### ENG (electronystagmogram) 95.24

### Enlargement

aortic lumen, thoracic 38.14
atrial septal defect (pre-existing) 35.41
in repair of total anomalous pulmonary venous connection 35.82
eye socket 16.64
foramen ovale (pre-existing) 35.41
in repair of total anomalous pulmonary venous connection 35.82
Enlargement ---Cont
  intestinal stoma 46.40
  large intestine 46.43
  small intestine 46.41
  introitus 96.16
  orbit (eye) 16.64
  palpebral fissure 08.51
  punctum 09.41
  sinus tract (skin) 86.89
Enterectomy NEC 45.63
Enteroreanastomosis
  large- to- large intestine 45.94
  small- to- large intestine 45.93
  small- to- small intestine 45.91
Enterocoelectomy 53.9
  female 70.92
    with graft or prosthesis 70.93
  vaginal 70.92
    with graft or prosthesis 70.93
Enterocentesis 45.00
  duodenum 45.01
  large intestine 45.03
  small intestine NEC 45.02
Enterocholecystostomy 51.32
Enteroclysis (small bowel) 96.43
Enterocolostomy NEC 45.79
Enterocolostomy 45.93
Enteroxysstomy 45.90
  small- to- large intestine 45.93
  small- to- small intestine 45.91
Enterogastrostomy 44.39
  laparoscopic 44.38
Enterolithotomy 45.00
Enterolysis 54.59
  laparoscopic 54.51
Enteropancreatostomy 52.96
Enterorrhaphy 46.79
  large intestine 46.75
  small intestine 46.73
Enterostomy NEC 46.39
  cecum --see also Colostomy 46.10
  colon (transverse) --see also Colostomy 46.10
    loop 46.03
  delayed opening 46.31
  duodenum 46.39
    loop 46.01
  feeding NEC 46.39
    percutaneous (endoscopic) 46.32
  ileum (Brooke) (Dragsted) 46.20
    loop 46.01
  jejunum (feeding) 46.39
    loop 46.01
    percutaneous (endoscopic) 46.32
  sigmoid colon --see also Colostomy 46.10
    loop 46.03
  transverse colon --see also Colostomy 46.10
    loop 46.03
Enterotomy 45.00
  large intestine 45.03
  small intestine 45.02
Enucleation--see also Excision, lesion, by site
  cyst
    broad ligament 69.19
    dental 24.4
    liver 50.29
    ovarian 65.29
    laparoscopic 65.25
    parotid gland 26.29
    salivary gland 26.29
    skin 86.3
    subcutaneous tissue 86.3
  eyeball 16.49
    with implant(into Tenon's capsule) 16.42
    with attachment of muscles 16.41
EOG (electro- oculogram) 95.22
Epicardiection 36.39
Epididymectomy 63.4
  with orchidectomy (unilateral) 62.3
    bilateral 62.41
Epididymogram 87.93
Epididymoplasty 63.59
Epididymorrhaphy 63.81
Epididymotomy 63.92
Epididymovasostomy 63.83
Epiglottidectomy 30.21
Epikeratophakia 11.76
Epilation
  eyebrow (forceps) 08.93
  cryosurgical 08.92
  electrosurgical 08.91
  eyelid (forceps) NEC 08.93
    cryosurgical 08.92
    electrosurgical 08.91
  skin 86.92
Epiphysiodesis --see also Arrest, bone growth
  --see category 78.2
Epiphysiolysis --see also Arrest, bone growth
  --see category 78.2
Epiploectomy 54.4
Epiploexy 54.74
Epiploorrhaphy 54.74
Episioperineoplasty 71.79
Episioperineorrhaphy 71.71
  obstetrical 75.69
Episioplasty 71.79
Episio proctotom y 73.6
Episioorrhaphy 73.71
  following episiotomy  --see Episiotomy for obstetrical laceration 75.69
Episiotomy (with subsequent episiorrhaphy) 73.6
  high forceps 72.31
  low forceps 72.1
  mid forceps 72.21
  nonobstetrical 71.09
  outlet forceps 72.1
EPS (electrophysiologic stimulation) as part of intraoperative testing --omit code
catheter based invasive electrophysiologic
testing 37.26
device interrogation only without arrhythmia
induction (bedside check) 89.45-89.49
noninvasive programmed electrical
stimulation (NIPS) 37.20

Eptifibatide, infusion 99.20

Equalization, leg
lengthening --see category 78.3
shortening --see category 78.2

Equilibration (occlusal) 24.8

Equiloudness balance 95.43

ERC (endoscopic retrograde
cholangiography) 51.11

ERCP (endoscopic retrograde
cholangiopancreatography) 51.10

cannulation of pancreatic duct 52.93

ERG (electroretinogram) 95.21

ERP (endoscopic retrograde
pancreatography) 52.13

Eruption, tooth, surgical
24.6

Erythrocytapheresis, therapeutic
99.73

Escharectomy 86.09

Esophageal voice training
(postlaryngectomy) 93.73

Esophagectomy 42.40

- abdominolatohoracocervical (combined)
  (synchronous) 42.42
- partial or subtotal 42.41
  total 42.42

Esophagegastrotomy (intrathoracic) 42.55

- antesternal or antethoracic 42.65

Esophageocolostomy (intrathoracic) NEC 42.56

- with interposition of colon 42.55
- antesternal or antethoracic NEC 42.66
  with interposition of colon 42.65

Esophageoduodenostomy (intrathoracic) NEC 42.54

- with
  - complete gastrectomy 43.99
  - interposition of small bowel 42.53

Esophageoenterostomy (intrathoracic) NEC --see also Anastomosis, esophagus, to
intestinal segment 42.54

- antesternal or antethoracic --see also
  Anastomosis, esophagus, antesternal, to
  intestinal segment 42.64

Esophagoesophageostomy (intrathoracic) 42.51

- antesternal or antethoracic 42.61

Esophagogastrectomy 43.99

Esophagogastroduodenoscopy (EGD) 45.13

- with closed biopsy 45.16
  through stoma (artificial) 45.12
  transabdominal (operative) 45.11

Esophagogastrostomy 42.7

Esophagogastroscopy NEC 44.13

- through stoma (artificial) 44.12
  transabdominal (operative) 44.11

Esophagogastrostomy (intrathoracic) 42.52

- with partial gastrectomy 43.5
  antesternal or antethoracic 42.62

Esophagoileostomy NEC 42.54

- with interposition of small bowel 42.53
- antesternal or antethoracic NEC 42.64
  with interposition of small bowel 42.63

Esophagojejunostomy NEC 42.54

- with
  - complete gastrectomy 43.99
  - interposition of small bowel 42.53
  - antesternal or antethoracic NEC 42.64
  - with interposition of small bowel 42.63

Esophagomyotomy 42.7

Esophagoplasty NEC 42.89

Esophagorrhaphy 42.82

Esophagoscopy NEC 42.23

- by incision (operative) 42.21
  with closed biopsy 42.24
  through stoma (artificial) 42.22
  transabdominal (operative) 42.21

Esophagostomy 42.10

- cervical 42.11
- thoracic 42.19

Esophagomyotomy NEC 42.09

Estes operation (ovary) 65.72

- laparoscopic 65.75

Estlander operation (thoracoplasty) 33.34

ESWL (extracorporeal shockwave lithotripsy)

- NEC 98.59
  - bile duct 98.52
  - bladder 98.51
  - gallbladder 98.52
  - kidney 98.51
  - Kock pouch (urinary diversion) 98.51
  - renal pelvis 98.51
  - specified site NEC 98.59
  - ureter 98.51

Ethmoidectomy 22.63

Ethmoidotomy 22.51

Evacuation

- abscess --see Drainage, by site
- anterior chamber (eye) (aqueous)
  (hyphema) 12.91
- cyst --see also Excision, lesion, by site
  - breast 85.91
  - kidney 55.01
  - liver 50.29

- hematoma --see also Incision, hematoma
  - obstetrical 75.92
  - incisional 75.91
  - hemorrhoids (thrombosed) 49.47
Evacuation ---Cont.
pelvic blood clot (by incision) 54.19
by
culdocentesis 70.0
culdoscopy 70.22
retained placenta
with curettage 69.02
manual 75.4
streptothrix from lacrimal duct 09.42
Evaluation (of)
audiological 95.43
cardiac rhythm device (CRT-D) (CRT-P) (AICD) (pacemaker) --see Interrogation
criminal responsibility, psychiatric 94.11
functional (physical therapy) 93.01
hearing NEC 95.49
orthotic (for brace fitting) 93.02
prosthetic (for artificial limb fitting) 93.03
psychiatric NEC 94.19
commitment 94.13
psychologic NEC 94.08
testimentary capacity, psychiatric 94.11
Evans operation (release of clubfoot) 83.84
Evisceration
eyeball 16.39
with implant (into scleral shell) 16.31
ocular contents 16.39
with implant (into scleral shell) 16.31
orbit --see also Exenteration, orbit 16.59
pelvic (anterior) (posterior) (partial) (total) (female) 68.8
male 57.71
Evulsion
nail (bed) (fold) 86.23
skin 86.3
subcutaneous tissue 86.3
Examination (for)
breast
manual 89.36
radiographic NEC 87.37
thermographic 88.85
ultrasonic 88.73
cervical rib (by x-ray) 87.43
colostomy stoma (digital) 89.33
dental (oral mucosa) (peridontal) 89.31
radiographic NEC 87.12
enterostomy stoma (digital) 89.33
eye 95.09
color vision 95.06
comprehensive 95.02
dark adaptation 95.07
limited (with prescription of spectacles) 95.01
under anesthesia 95.04
fetus, intrauterine 75.35
general physical 89.7
glaucoma 95.03
gynecological 89.26
hearing 95.47
Examination (for)---Cont.
microscopic (specimen) (of) 91.9
Note -- Use the following fourth-digit subclassification with categories 90-91 to identify type of examination:
1 bacterial smear
2 culture
3 culture and sensitivity
4 parasitology
5 toxicology
6 cell block and Papanicolaou smear
9 other microscopic examination
adenoid 90.3
adrenal gland 90.1
amnion 91.4
anus 90.9
appendix 90.9
bile ducts 91.0
bladder 91.3
blood 90.5
bone 91.5
marrow 90.6
brain 90.0
breast 91.6
bronchus 90.4
bursa 91.5
cartilage 91.5
cervix 91.4
chest wall 90.4
chorion 91.4
colon 90.9
cul-de-sac 91.1
dental 90.8
diaphragm 90.4
duodenum 90.8
ear 90.3
endocrine gland NEC 90.1
esophagus 90.8
eye 90.2
fallopian tube 91.4
fascia 91.5
female genital tract 91.4
fetus 91.4
gallbladder 91.0
hair 91.6
ileum 90.9
jejenum 90.9
joint fluid 91.5
kidney 91.2
large intestine 90.9
larynx 90.3
ligament 91.5
liver 91.0
lung 90.4
lymph (node) 90.7
meninges 90.0
mesentery 91.1
mouth 90.8
<table>
<thead>
<tr>
<th>Examination - microscopic ---Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>muscle 91.5</td>
</tr>
<tr>
<td>musculoskeletal system 91.5</td>
</tr>
<tr>
<td>nails 91.6</td>
</tr>
<tr>
<td>nerve 90.0</td>
</tr>
<tr>
<td>nervous system 90.0</td>
</tr>
<tr>
<td>nose 90.3</td>
</tr>
<tr>
<td>omentum 91.1</td>
</tr>
<tr>
<td>operative wound 91.7</td>
</tr>
<tr>
<td>ovary 91.4</td>
</tr>
<tr>
<td>pancreas 91.0</td>
</tr>
<tr>
<td>parathyroid gland 90.1</td>
</tr>
<tr>
<td>penis 91.3</td>
</tr>
<tr>
<td>perirenal tissue 91.2</td>
</tr>
<tr>
<td>peritoneum (fluid) 91.1</td>
</tr>
<tr>
<td>periureteral tissue 91.2</td>
</tr>
<tr>
<td>perivesical (tissue) 91.3</td>
</tr>
<tr>
<td>pharynx 90.3</td>
</tr>
<tr>
<td>pineal gland 90.1</td>
</tr>
<tr>
<td>pituitary gland 90.1</td>
</tr>
<tr>
<td>placenta 91.4</td>
</tr>
<tr>
<td>pleura (fluid) 90.4</td>
</tr>
<tr>
<td>prostate 91.3</td>
</tr>
<tr>
<td>rectum 90.9</td>
</tr>
<tr>
<td>retroperitoneum 91.1</td>
</tr>
<tr>
<td>semen 91.3</td>
</tr>
<tr>
<td>seminal vesicle 91.3</td>
</tr>
<tr>
<td>sigmoid 90.9</td>
</tr>
<tr>
<td>skin 91.6</td>
</tr>
<tr>
<td>small intestine 90.9</td>
</tr>
<tr>
<td>specified site NEC 91.8</td>
</tr>
<tr>
<td>spinal fluid 90.0</td>
</tr>
<tr>
<td>spleen 90.6</td>
</tr>
<tr>
<td>sputum 90.4</td>
</tr>
<tr>
<td>stomach 90.8</td>
</tr>
<tr>
<td>stool 90.9</td>
</tr>
<tr>
<td>synovial membrane 91.5</td>
</tr>
<tr>
<td>tendon 91.5</td>
</tr>
<tr>
<td>thorax NEC 90.4</td>
</tr>
<tr>
<td>throat 90.3</td>
</tr>
<tr>
<td>thymus 90.1</td>
</tr>
<tr>
<td>thyroid gland 90.1</td>
</tr>
<tr>
<td>tonsil 90.3</td>
</tr>
<tr>
<td>trachea 90.4</td>
</tr>
<tr>
<td>ureter 91.2</td>
</tr>
<tr>
<td>urethra 91.3</td>
</tr>
<tr>
<td>urine 91.3</td>
</tr>
<tr>
<td>uterus 91.4</td>
</tr>
<tr>
<td>vagina 91.4</td>
</tr>
<tr>
<td>vas deferens 91.3</td>
</tr>
<tr>
<td>vomitus 90.8</td>
</tr>
<tr>
<td>vulva 91.4</td>
</tr>
<tr>
<td>neurologic 89.13</td>
</tr>
<tr>
<td>neuro- ophthalmology 95.03</td>
</tr>
<tr>
<td>ophthalmoscopic 16.21</td>
</tr>
<tr>
<td>panorex, mandible 87.12</td>
</tr>
<tr>
<td>pelvic (manual) 89.26</td>
</tr>
<tr>
<td>instrumental (by pelvimeter) 88.25</td>
</tr>
<tr>
<td>pelvimetric 88.25</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Examination (for) ---Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>physical, general 89.7</td>
</tr>
<tr>
<td>postmortem 89.8</td>
</tr>
<tr>
<td>rectum (digital) 89.34</td>
</tr>
<tr>
<td>endoscopic 48.23</td>
</tr>
<tr>
<td>through stoma (artificial) 48.22</td>
</tr>
<tr>
<td>transabdominal 48.21</td>
</tr>
<tr>
<td>retinal disease 95.03</td>
</tr>
<tr>
<td>specified type (manual) NEC 89.39</td>
</tr>
<tr>
<td>thyroid field, postoperative 06.02</td>
</tr>
<tr>
<td>uterus (digital) 68.11</td>
</tr>
<tr>
<td>endoscopic 68.12</td>
</tr>
<tr>
<td>vagina 89.26</td>
</tr>
<tr>
<td>endoscopic 70.21</td>
</tr>
<tr>
<td>visual field 95.05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exchange transfusion 99.01</th>
</tr>
</thead>
<tbody>
<tr>
<td>intrauterine 75.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Excision</th>
</tr>
</thead>
<tbody>
<tr>
<td>aberrant tissue --see Excision, lesion, by site of tissue origin</td>
</tr>
<tr>
<td>abscess --see Excision, lesion, by site accessory tissue --see also Excision, lesion, by site of tissue origin</td>
</tr>
<tr>
<td>lung 32.29</td>
</tr>
<tr>
<td>endoscopic 32.28</td>
</tr>
<tr>
<td>thoracoscopic 32.20</td>
</tr>
<tr>
<td>spleen 41.93</td>
</tr>
<tr>
<td>adenoids (tag) 28.6</td>
</tr>
<tr>
<td>with tonsillectomy 28.3</td>
</tr>
<tr>
<td>adenoma --see Excision, lesion, by site adrenal gland--see also Adrenalectomy 07.22</td>
</tr>
<tr>
<td>ampulla of Vater (with reimplantation of common duct) 51.62</td>
</tr>
<tr>
<td>anal papilla 49.39</td>
</tr>
<tr>
<td>endoscopic 49.31</td>
</tr>
<tr>
<td>aneurysm (arteriovenous) --see also</td>
</tr>
<tr>
<td>Aneurysmectomy 38.60</td>
</tr>
<tr>
<td>coronary artery 36.91</td>
</tr>
<tr>
<td>heart 37.32</td>
</tr>
<tr>
<td>myocardium 37.32</td>
</tr>
<tr>
<td>sinus of Valsalva 35.39</td>
</tr>
<tr>
<td>ventricle (heart) 37.32</td>
</tr>
<tr>
<td>anus (complete) (partial) 49.6</td>
</tr>
<tr>
<td>aortic subvalvular ring 35.35</td>
</tr>
<tr>
<td>apocrine gland 86.3</td>
</tr>
<tr>
<td>aponeurosis 83.42</td>
</tr>
<tr>
<td>hand 82.33</td>
</tr>
<tr>
<td>appendage, left atrial 37.36</td>
</tr>
<tr>
<td>appendiceal stump 47.09</td>
</tr>
<tr>
<td>laparoscopic 47.01</td>
</tr>
<tr>
<td>appendices epiploicae 54.4</td>
</tr>
<tr>
<td>appendix --see also Appendectomy</td>
</tr>
<tr>
<td>epididymis 63.3</td>
</tr>
<tr>
<td>testis 62.2</td>
</tr>
<tr>
<td>arcuate ligament (spine) --omit code</td>
</tr>
<tr>
<td>arteriovenous fistula --see also</td>
</tr>
<tr>
<td>Aneurysmectomy 38.60</td>
</tr>
<tr>
<td>artery --see also Arterectomy 38.60</td>
</tr>
<tr>
<td>Baker's cyst, knee 83.39</td>
</tr>
</tbody>
</table>
ICD-9-CM INDEX TO PROCEDURES (FY10)

Excision --Cont.

Bartholin's gland 71.24
basal ganglion 01.59
bile duct 51.69
endoscopic 51.64
bladder --see also Cystectomy
bleb (emphysematous), lung 32.29
endoscopic 32.28
thoracoscopic 32.20
blood vessel --see also Angiectomy 38.60
bone (ends) (partial), except facial
--see category 77.8
facial NEC 76.39
  total 76.45
  with reconstruction 76.44
for graft (autograft) (homograft)
--see category 77.7
fragments (chips) --see also Incision, bone 77.10
joint --see also Arthrotomy 80.10
necrotic --see also Sequestrectomy, bone 77.00
heterotopic, from
  muscle 83.32
  hand 82.22
  skin 86.3
  tendon 83.31
  hand 82.21
  mandible 76.31
  with arthrodesis --see Arthrodesis
  total 76.42
  with reconstruction 76.41
spur --see Excision, lesion, bone
  total, except facial -->see category 77.9
  facial NEC 76.45
  with reconstruction 76.44
  mandible 76.42
  with reconstruction 76.41
brain 01.59
  hemisphere 01.52
  lobe 01.53
branchial cleft cyst or vestige 29.2
breast --see also Mastectomy 85.41
  aberrant tissue 85.24
  accessory 85.24
  ectopic 85.24
  nipple 85.25
  accessory 85.24
  segmental 85.23
  supernumery 85.24
  wedge 85.21
  broad ligament 69.19
brachogenic cyst 32.09
endoscopic 32.01
brachus (wide sleeve) NEC 32.1
buccal mucosa 27.49
bulbourethral gland 58.92
bulbous tuberosities (mandible) (maxilla) (fibrous) (osseous) 24.31

Excision --Cont.
bunion --see also Bunionectomy 77.59
bunionette (with osteotomy) 77.54
bursa 83.5
  hand 82.31
canal of Nuck 69.19
cardioma 37.33
carotid body (lesion) (partial) (total) 39.8
cartilage --see also Chondrectomy 80.90
  intervertebral --see category 80.5
  knee (semilunar) 80.6
  larynx 30.29
  nasal (submucous) 21.5
caruncle, urethra 58.39
  endoscopic 58.31
cataract --see also Extraction, cataract 13.19
  secondary membrane (after cataract) 13.65
cervical
  rib 77.91
  stump 67.4
cervix (stump) NEC 67.4
  cold (knife) 67.2
  conization 67.2
  cryoconization 67.33
  electroconization 67.32
chalazion (multiple) (single) 08.21
cholesteatoma--see Excision, lesion, by site
chordoid plexus 02.14
cicatrix (skin) 86.3
cilia base 08.20
ciliary body, prolapsed 12.98
clavicle (head) (partial) 77.81
  total (complete) 77.91
clitoris 71.4
coarctation of aorta (end-to-end anastomosis) 38.64
  with graft replacement (interposition)
    abdominal 38.44
    thoracic 38.45
    thoracoabdominal 38.45 [38.44]
common
  duct 51.63
  wall between posterior and coronary sinus (with roofing or resultant defect with patch graft) 35.82
condyle --see category 77.8
  mandible 76.5
conjunctival ring 10.31
cornea 11.49
  epithelium (with chemocauterization) 11.41
  for smear or culture 11.21
costal cartilage 80.99
cul-de-sac (Douglas') 70.92
  with graft or prosthesis 70.93
cusp, heart valve 35.10
  aortic 35.11
  mitral 35.12
  tricuspid 35.14
Excision ---Cont.
cyst --see also Excision, lesion, by site
apical (tooth) 23.73
  with root canal therapy 23.72
Baker’s (popliteal) 83.39
breast 85.21
broad ligament 69.19
bronchogenic 32.09
  endoscopic 32.01
cervix 67.39
dental 24.4
dentigerous 24.4
epididymis 63.2
fallopian tube 66.61
Gartner's duct 70.33
hand 82.29
labia 71.3
lung 32.29
  endoscopic 32.28
  thoracoscopic 32.20
mesonephric duct 69.19
Morgagni
  female 66.61
  male 62.2
mullerian duct 60.73
  laparoscopic 65.25
nasolabial 27.49
nasopalatine 27.31
  by wide excision 27.32
ovary 65.29
  laparoscopic 65.25
parovarian 69.19
pericardium 37.31
periodontal (apical) (lateral) 24.4
  popliteal (Baker’s), knee 83.39
radicular 24.4
spleen 41.42
synovial (membrane) 83.39
thyroglossal (with resection of hyoid bone) 06.7
urachal (bladder) 57.51
  abdominal wall 54.3
vagina (Gartner’s duct) 70.33
cystic
duct remnant 51.61
hygroma 40.29
dentinoma 24.4
diaphragm 34.81
disc, intervertebral NOS 80.50
  herniated (nucleus pulposus) 80.51
other specified (diskectomy) 80.51
diverticulum
  ampulla of Vater 51.62
  anus 49.39
    endoscopic 49.31
  bladder 57.59
    transurethral 57.49
  duodenum 45.31
    endoscopic 45.30
Excision - diverticulum ---Cont.
esophagus (local) 42.31
  endoscopic 42.33
hypopharyngeal (by cricopharyngeal myotomy) 29.32
intestine
  large 45.41
    endoscopic 45.43
  small NEC 45.33
Meckel's 45.33
pharyngeal (by cricopharyngeal myotomy) 29.32
pharyngoesophageal (by cricopharyngeal myotomy) 29.32
stomach 43.42
  endoscopic 43.41
urethra 58.39
  endoscopic 58.31
ventricle, heart 37.33
duct
  mullerian 69.19
  paramesonephric 69.19
thyroglossal (with resection of hyoid bone) 06.7
ear, external (complete) NEC 18.39
  partial 18.29
  radical 18.31
ectopic
  abdominal fetus 74.3
tissue --see also Excision, lesion, by site of tissue origin
  bone, from muscle 83.32
  breast 85.24
  lung 32.29
    endoscopic 32.28
    thoracoscopic 32.20
  spleen 41.93
empyema pocket, lung 34.09
epididymis 63.4
epiglottis 30.21
epithelial downgrowth, anterior chamber (eye) 12.93
epulis (gingiva) 24.31
esophagus --see also Esophagectomy 42.40
exostosis --see also Excision, lesion, by bone, from
  auditory canal, external 18.29
  facial bone 76.2
  first metatarsal (hallux valgus repair)
    --see Bunionectomy
  eyelid 08.20
    with implant (into Tenon's capsule) 16.42
    with attachment of muscles 16.41
  redundant skin 08.86
  falciform ligament 54.4
  fallopian tube --see Salpingectomy
### Excision ---Cont.

- fascia 83.44
  - for graft 83.43
    - hand 82.34
    - for graft 82.34
- fat pad NEC 86.3
  - knee (infrapatellar) (prepatellar) 86.3
- fibroadenoma, breast 85.21
- fissure, anus 49.39
  - endoscopic 49.31
- fistula
  - *see also* Fistulectomy
- frenulum, frenum
  - labial (lip) 27.41
  - lingual (tongue) 25.92
- ganglion (hand) (tendon sheath) (wrist) 82.21
  - gasserian 04.05
  - site other than hand or nerve 83.31
    - sympathetic nerve 05.29
  - trigeminal nerve 04.05
- gingiva 24.31
- glomus jugulare tumor 20.51
- goiter
  - *see also* Thyroidectomy
- gum 24.31
- hygroma, cystic 40.29
- hymen (tag) 70.31
- hymeno-urethral fusion 70.31
- intervertebral disc
  - *see Excision, disc, intervertebral (NOS) 80.50
- intestine
  - *see also* Resection, intestine 45.8
    - for interposition 45.50
    - large 45.52
      - small 45.51
    - large (total)
      - for interposition 45.52
      - laparoscopic 45.81
      - open 45.82
      - other 45.83
      - local 45.41
      - endoscopic 45.43
      - segmental 45.79
      - laparoscopic 17.39
      - multiple
        - laparoscopic 17.31
        - open and other 45.71
        - open and other 45.79
      - unspecified 45.83
      - small (total) 45.63
    - for interposition 45.51
      - local 45.33
      - partial 45.62
      - segmental 45.62
      - multiple 45.61
- intraductal papilloma 85.21
- iris prolapse 12.13
- joint
  - *see also* Arthroscopy 80.90
- keloid (scar), skin 86.3
- LAA 37.36
- labia
  - *see* Vulvectomy
- lacrimal
  - gland 09.21
  - sac 09.6
  - rectal 48.73
  - vesicovaginal 57.84
- lesion (local)
  - abdominal wall 54.3
  - accessory sinus
    - *see Excision, lesion, nasal sinus
  - adenoids 28.92
  - adrenal gland(s) 07.21
  - alveolus 24.4
  - ampulla of Vater 51.62
  - anterior chamber (eye) NEC 12.40
  - anus 49.39
    - endoscopic 49.31
  - apocrine gland 86.3
  - artery 38.60
    - abdominal 38.66
    - aorta (arch) (ascending) (descending thoracic) 38.64

---

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fascia excision for graft</td>
<td>83.43</td>
</tr>
<tr>
<td>Hand excision for graft</td>
<td>82.34</td>
</tr>
<tr>
<td>Fat pad NEC excision</td>
<td>86.3</td>
</tr>
<tr>
<td>Knee (infrapatellar) (prepatellar) excision</td>
<td>86.3</td>
</tr>
<tr>
<td>Fibroadenoma, breast excision</td>
<td>85.21</td>
</tr>
<tr>
<td>Fissure, anus excision</td>
<td>49.39</td>
</tr>
<tr>
<td>Fistula excision</td>
<td>49.31</td>
</tr>
<tr>
<td>Frenulum, frenum excision</td>
<td>27.41</td>
</tr>
<tr>
<td>Lingual (tongue) excision</td>
<td>25.92</td>
</tr>
<tr>
<td>Ganglion (hand) (tendon sheath) (wrist) excision</td>
<td>82.21</td>
</tr>
<tr>
<td>Gasserian nerve excision</td>
<td>04.05</td>
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<tr>
<td>Site other than hand or nerve excision</td>
<td>83.31</td>
</tr>
<tr>
<td>Trigeminal nerve excision</td>
<td>04.05</td>
</tr>
<tr>
<td>Gingiva excision</td>
<td>24.31</td>
</tr>
<tr>
<td>Glomus jugulare tumor excision</td>
<td>20.51</td>
</tr>
<tr>
<td>Goiter excision</td>
<td>86.3</td>
</tr>
<tr>
<td>Gum excision</td>
<td>24.31</td>
</tr>
<tr>
<td>Hygroma, cystic excision</td>
<td>40.29</td>
</tr>
<tr>
<td>Hymen (tag) excision</td>
<td>70.31</td>
</tr>
<tr>
<td>Hymeno-urethral fusion excision</td>
<td>70.31</td>
</tr>
<tr>
<td>Intervertebral disc excision</td>
<td>80.50</td>
</tr>
<tr>
<td>Intestine excision</td>
<td>45.8</td>
</tr>
<tr>
<td>Large intestine (total) for interposition</td>
<td>45.52</td>
</tr>
<tr>
<td>Small intestine (total)</td>
<td>45.63</td>
</tr>
<tr>
<td>Internal organ (local) excision</td>
<td>54.3</td>
</tr>
<tr>
<td>Accessory sinus excision</td>
<td>28.92</td>
</tr>
<tr>
<td>Adrenal gland(s) excision</td>
<td>07.21</td>
</tr>
<tr>
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<td>24.4</td>
</tr>
<tr>
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<td>51.62</td>
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<td>Anterior chamber (eye) NEC</td>
<td>12.40</td>
</tr>
<tr>
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<td>49.39</td>
</tr>
<tr>
<td>Apocrine gland</td>
<td>86.3</td>
</tr>
<tr>
<td>Artery</td>
<td>38.60</td>
</tr>
<tr>
<td>Abdominal wall</td>
<td>54.3</td>
</tr>
<tr>
<td>Accessory sinus excision</td>
<td>28.92</td>
</tr>
<tr>
<td>Adrenal gland(s) excision</td>
<td>07.21</td>
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<td>51.62</td>
</tr>
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<td>Anterior chamber (eye) NEC</td>
<td>12.40</td>
</tr>
<tr>
<td>Anus</td>
<td>49.39</td>
</tr>
<tr>
<td>Endoscopic excision</td>
<td>49.31</td>
</tr>
<tr>
<td>Apocrine gland excision</td>
<td>86.3</td>
</tr>
<tr>
<td>Artery</td>
<td>38.60</td>
</tr>
<tr>
<td>Abdominal</td>
<td>38.66</td>
</tr>
<tr>
<td>Aorta (arch) (ascending) (descending thoracic)</td>
<td>38.64</td>
</tr>
</tbody>
</table>
ICD-9-CM INDEX TO PROCEDURES (FY10)

**Excision - lesion - artery --- Cont.**

with end-to-end anastomosis 38.45
- abdominal 38.44
- thoracic 38.45
- thoracoabdominal 38.45 [38.44]

with graft interposition graft replacement 38.45
- abdominal 38.44
- thoracic 38.45
- thoracoabdominal 38.45 [38.44]

head and neck NEC 38.62
- intracranial NEC 38.61
- lower limb 38.68
- thoracic NEC 38.65
- upper limb 38.63

atrium 37.33

auditory canal or meatus, external 18.29
- radical 18.31

auricle, ear 18.29
- radical 18.31

biliary ducts 51.69
- endoscopic 51.64

bladder (transurethral) 57.49
- open 57.59
- suprapubic 57.59

blood vessel 38.60
- abdominal
  - artery 38.66
  - vein 38.67
- aorta (arch) (ascending) (descending) 38.64

head and neck NEC 38.62
- intracranial NEC 38.61
- lower limb
  - artery 38.68
  - vein 38.69
  - thoracic NEC 38.65
  - upper limb (artery) (vein) 38.63

bone 77.60
- carpal, metacarpal 77.64
- clavicle 77.61
- facial 76.2
- femur 77.65
- fibula 77.67
- humerus 77.62
- jaw 76.2
- dental 24.4
- patella 77.66
- pelvic 77.69
- phalanges (foot) (hand) 77.69
- radius 77.63
- scapula 77.61
- skull 01.6
- specified site NEC 77.69
- tarsal, metatarsal 77.68
- thorax (ribs) (sternum) 77.61
- tibia 77.67
- ulna 77.63
- vertebrae 77.69

**Excision - lesion --- Cont.**

brain (transtemporal approach) NEC 01.59
- by stereotactic radiosurgery 92.30
- by cobalt 60 92.32
- by linear accelerator (LINAC) 92.31
- by multi-source 92.32
- by particle beam 92.33
- by particulate 92.33
- by radiosurgery NEC 92.39
- by single source photon 92.31

breast (segmental) (wedge) 85.21
- broad ligament 69.19
- bronchus NEC 32.09
- endoscopic 32.01
- cerebral (cortex) NEC 01.59
- meninges 01.51
- cervix (myoma) 67.39
- chest wall 34.4
- choroid plexus 02.14
- ciliary body 12.44
- colon 45.41
- endoscopic NEC 45.43
- endoscopic (polypectomy) 45.42
- conjunctiva 10.31
- cornea 11.49
- cranium 01.6
- cul-de-sac (Douglas') 70.32
- dental (jaw) 24.4
- diaphragm 34.81
- duodenum (local) 45.31
- endoscopic 45.30
- ear, external 18.29
- radical 18.31
- endometrium 68.29
- epicardium 37.31
- epididymis 63.3
- epiglottis 30.09
- esophagus NEC 42.32
- endoscopic 42.33
- eye, eyeball 16.93
- anterior segment NEC 12.40
- eyebrow (skin) 08.20
- eyelid 08.20
- by halving procedure 08.24
- wedge resection 08.24
- major
  - full-thickness 08.24
  - partial-thickness 08.23
- minor 08.22
- fallopian tube 66.61
- fascia 83.39
- hand 82.29
- groin region (abdominal wall)
  - (inguinal) 54.3
- skin 86.3
- subcutaneous tissue 86.3
- gum 24.31
- heart 37.33
Excision - lesion --- Cont.  
hepatic duct 51.69  
ingual canal 54.3  
intestine  
  large 45.41  
  endoscopic NEC 45.43  
  polypectomy 45.42  
small NEC 45.33  
intracranial NEC 01.59  
intranasal 21.31  
intraspinal 03.4  
iris 12.42  
jaw 76.2  
dental 24.4  
joint 80.80  
  ankle 80.87  
  elbow 80.82  
  foot and toe 80.88  
  hand and finger 80.84  
  hip 80.85  
  knee 80.86  
  shoulder 80.81  
  specified site NEC 80.89  
  spine 80.89  
  wrist 80.83  
  kidney 55.39  
  with partial nephrectomy 55.4  
labia 71.3  
lacrimal  
  gland (frontal approach) 09.21  
  passage 09.6  
  sac 09.6  
larynx 30.09  
ligament (joint) -- see also Excision, lesion, joint 80.80  
  broad 69.19  
  round 69.19  
  uterosacral 69.19  
lip 27.43  
  by wide excision 27.42  
leukemoid 50.29  
lung NEC 32.29  
  by lung volume reduction surgery 32.22  
  biologic lung volume reduction (BLVR) -- see category 33.7  
  by wide excision 32.39  
  thoracoscopic 32.30  
  endoscopic 32.28  
  thoracoscopic 32.20  
lymph structure(s) (channel) (vessel) NEC 40.29  
  node -- see Excision, lymph, node  
  mammary duct 85.21  
mastoid (bone) 20.49  
mediastinum 34.3  
meninges (cerebral) 01.51  
  spinal 03.4  
  mesentery 54.4  

Excision - lesion --- Cont.  
middle ear 20.51  
mouth NEC 27.49  
muscle 83.32  
  hand 82.22  
  ocular 15.13  
  myocardium 37.33  
nail 86.23  
nasal sinus 22.60  
  antrum 22.62  
  with Caldwell- Luc approach 22.61  
  specified approach NEC 22.62  
  ethmoid 22.63  
  frontal 22.42  
  maxillary 22.62  
  with Caldwell- Luc approach 22.61  
  specified approach NEC 22.62  
  sphenoid 22.64  
nasopharynx 29.3  
nervous (cranial) (peripheral) 04.07  
  sympathetic 05.29  
  nonodontogenic 24.31  
nose 21.30  
  intranasal 21.31  
  polyp 21.31  
  skin 21.32  
  specified site NEC 21.32  
  odontogenic 24.4  
  omentum 54.4  
  orbit 16.92  
  ovary 65.29  
  by wedge resection 65.22  
  laparoscopic 65.24  
  that by laparoscope 65.25  
  palate (bony) 27.31  
  by wide excision 27.32  
  soft 27.49  
  pancreas (local) 52.22  
  endoscopic 52.21  
  parathyroid 06.89  
  parotid gland or duct NEC 26.29  
  pelvic wall 54.3  
  perivesical tissue 59.91  
  perivesical tissue 59.91  
  pericardium 37.31  
  perineum (female) 71.3  
  male 86.3  
  periprostatic tissue 60.82  
  periurethral tissue 48.82  
  penis 64.2  
  pericardium 37.31  
  perineum (female) 71.3  
  male 86.3  
  periprostatic tissue 60.82  
  periurethral tissue 48.82  
  perirenal tissue 59.91  
  peritoneum 54.4  
  perivesical tissue 59.91  
  pharynx 29.39  
  diverticulum 29.32  
  pineal gland 07.53  
  pinna 18.29  
  radical 18.31  
  pituitary (gland) -- see also  
  Hypophysectomy, partial 07.63
**ICD-9-CM INDEX TO PROCEDURES (FY10)**

**Excision - lesion - pituitary --- Cont.**
- by stereotactic radiosurgery 92.30
- cobalt 92.32
- linear accelerator (LINAC) 92.31
- multi-source 92.32
- particulate beam 92.33
- particulate 92.33
- radiosurgery NEC 92.39
- single source photon 92.31

pleura 34.59
pouch of Douglas 70.32
preauricular (ear) 18.21
presacral 54.4
prostate (transurethral) 60.61
pulmonary (fibrosis) 32.29
endoscopic 32.28
thoracoscopic 32.20
rectovaginal septum 48.82
rectum 48.35
polyp (endoscopic) 48.36
retroperitoneum 54.4
salivary gland or duct NEC 26.29
en bloc 26.32
sclera 12.84
scrotum 61.3
sinus (nasal) -- see Excision, lesion, nasal sinus
Skene's gland 71.3
skin 86.3
breast 85.21
nose 21.32
radical (wide) (involving underlying or adjacent structure) (with flap closure) 86.4
scrotum 61.3
skull 01.6
soft tissue NEC 83.39
hand 82.29
spermatic cord 63.3
sphincter of Oddi 51.62
endoscopic 51.64
spinal cord (meninges) 03.4
spleen (cyst) 41.42
stomach NEC 43.42
endoscopic 43.41
polyp 43.41
polyph (endoscopic) 43.41
subcutaneous tissue 86.3
breast 85.21
subgingival 24.31
sweat gland 86.3
tendon 83.39
hand 82.29
ocular 15.13
sheath 83.31
hand 82.21
testis 62.2
thorax 34.4

---

**Excision - lesion --- Cont.**
- thymus
  - partial (open) (other) 07.81
  - thoraocscopic 07.83
- total (open) (other) 07.82
  - thoracoscopic 07.84
- thyroid 06.31
  - substernal or transsternal route 06.51
- tongue 25.1
tonsil 28.92
trachea 31.5
tunica vaginalis 61.92
ureter 56.41
urethra 58.39
  - endoscopic 58.31
uterine ligament 69.19
uterosacral ligament 69.19
uterus 68.29
vagina 70.33
vein 38.60
  - abdominal 38.67
  - head and neck NEC 38.62
  - intracranial NEC 38.61
lower limb 38.69
thoracic NEC 38.65
upper limb 38.63
ventricle (heart) 37.33
vocal cords 30.09
vulva 71.3
ligament -- see also Arthrocentesis 80.90
  - broad 69.19
  - round 69.19
  - uterine 69.19
uterosacral 69.19
ligamentum flavum (spine) -- omit code
lingual tonsil 28.5
lip 27.43
liver (partial) 50.22
loose body
  - bone -- see Sequestrectomy, bone joint 80.10
lung (with mediastinal dissection) 32.59
  - accessory or ectopic tissue 32.29
  - endoscopic 32.28
  - thoracoscopic 32.20
  - segmental 32.3
  - thoracoscopic 32.30
  - specified type NEC 32.29
  - endoscopic 32.29
  - thoracoscopic 32.20
  - thoracoscopic 32.50
  - volume reduction surgery 32.22
  - wedge 32.29
  - thoracoscopic 32.20
ICD-9-CM INDEX TO PROCEDURES (FY10)

Excision --Cont.
lymph, lymphatic drainage area 40.29
radical --see Excision, lymph, node, radical
regional (with lymph node, skin, subcutaneous tissue, and fat) 40.3
node (simple) NEC 40.29
with lymphatic drainage area (including skin, subcutaneous tissue, and fat) 40.3
mastectomy --see Mastectomy, radical
muscle and deep fascia --see Excision, lymph, node, radical
axillary 40.23
radical 40.51
regional (extended) 40.3
cervical (deep) (with excision of scalene fat pad) 40.21
with laryngectomy 30.4
radical (including muscle and deep fascia) 40.40
bilateral 40.42
unilateral 40.41
regional (extended) 40.3
superficial 40.29
groin 40.24
radical 40.54
regional (extended) 40.3
iliac 40.29
radical 40.53
regional (extended) 40.3
inguinal (deep) (superficial) 40.24
radical 40.54
regional (extended) 40.3
jugular --see Excision, lymph, node, cervical
mammary (internal) 40.22
external 40.29
radical 40.59
regional (extended) 40.3
radical 40.59
regional (extended) 40.3
paratracheal --see Excision, lymph, node, cervical
periaortic 40.29
radical 40.52
regional (extended) 40.3
radical 40.50
with mastectomy --see Mastectomy, radical
specified site NEC 40.59
regional (extended) 40.3
sternal --see Excision, lymph, node, mammary

Excision --lymph --Cont.
structure(s) (simple) NEC 40.29
radical 40.59
regional (extended) 40.3
lymphangioma (simple) --see also Excision, lymph, lymphatic, node, 40.29
lymphocele 40.29
mastoid --see also Mastoidectomy 20.49
median bar, transurethral approach 60.29
meibomian gland 08.20
meniscus (knee) 80.6
acromioclavicular 80.91
jaw 76.5
sternoclavicular 80.91
temporomandibular (joint) 76.5
wrist 80.93
mullerian duct cyst 60.73
muscle 83.45
for graft 83.43
hand 82.34
hand 82.36
for graft 82.34
myositis ossificans 83.32
hand 82.22
nail (bed) (fold) 86.23
nasolabial cyst 27.49
nasopalatine cyst 27.31
by wide excision 27.32
neoplasm --see Excision, lesion, by site nerve (cranial) (peripheral) NEC 04.07
sympathetic 05.29
neuroma(Morton's)(peripheral nerve) 04.07
acoustic
by craniotomy 04.01
by stereotactic radiosurgery 92.30
coalt 60 92.32
linear accelerator (LINAC) 92.31
multi-source 92.32
particle beam 92.33
particulate 92.33
radiosurgery NEC 92.39
single source photon 92.31
sympathetic nerve 05.29
nipple 85.25
accessory 85.24
odontoma 24.4
orbital contents --see also Exenteration, orbit 16.59
osteocondritis dissecans --see also Excision, lesion, joint 80.80
ovary --see also Oophorectomy
partial 65.29
by wedge resection 65.22
laparoscopic 65.24
that by laparoscope 65.25
Pancoast tumor (lung) 32.6
pancreas (total) (with synchronous duodenectomy) 52.6
Excision - pancreas --Cont.
  partial NEC 52.59
    distal (tail) (with part of body) 52.52
  proximal (head) (with part of body)
    (with synchronous
duodenectomy) 52.51
  radical subtotal 52.53
  radical (one-stage) (two-stage)
    52.7
  subtotal 52.53
paramesonephric duct 69.19
parathyroid gland (partial) (subtotal) NEC
  --see also Parathyroidectomy 06.89
parotid gland --see also Excision,
salivary gland 26.30
parovarian cyst 69.19
patella (complete) 77.96
    partial 77.86
pelvirectal tissue 48.82
perianal tissue 49.04
  skin tags 49.03
pericardial adhesions 37.31
periprostatic tissue 60.82
perirenal tissue 59.91
peripheral tissue 59.91
petrous apex cells 20.59
pharyngeal bands 29.54
pharynx (partial) 29.33
pilonidal cyst or sinus (open) (with
  partial closure) 86.21
pineal gland (complete) (total) 07.54
  partial 07.53
pituitary gland (complete) (total)
  --see also Hypophysectomy 07.69
pleura NEC 34.59
polyp --see also Excision, lesion, by site
esophagus 42.32
  endoscopic 42.33
large intestine 45.41
  endoscopic 45.42
  nose 21.31
rectum (endoscopic) 48.36
stomach (endoscopic) 43.41
preauricular
  appendage (remnant) 18.29
  cyst, fistula, or sinus (congenital) 18.21
remnant 18.29
prolapsed iris (in wound) 12.13
prostate --see Prostatectomy
pterygium (simple) 11.39
  with corneal graft 11.32
radius (head) (partial) 77.83
  total 77.93
ranula, salivary gland NEC 26.29
rectal mucosa 48.35
rectum --see Resection, rectum

Excision --Cont.
redundant mucosa
  colostomy 45.41
  endoscopic 45.43
duodenostomy 45.31
  endoscopic 45.30
ileostomy 45.33
jejunostomy 45.33
perineum 71.3
rectum 48.35
vulva 71.3
renal vessel, aberrant 38.66
rib (cervical) 77.91
ring of conjunctiva around cornea 10.31
round ligament 69.19
salivary gland 26.30
  complete 26.32
  partial 26.31
  radical 26.32
scalene fat pad 40.21
scar --see also Excision, lesion, by site
  epicardium 37.31
mastoid 20.92
pericardium 37.31
pleura 34.59
  skin 86.3
  thorax 34.4
secondary membrane, lens 13.65
semenal vesicle 60.73
  with radical prostatectomy 60.5
septum --see also Excision, by site
  uterine (congenital) 68.22
vagina 70.33
sinus --see also Excision, lesion, by site
  nasal --see Sinusectomy
pilonidal 86.21
preauricular (ear) (radial) 18.21
tarsi 80.88
thymoglossal (with resection of hyoid
  bone) 06.7
urachal (bladder) 57.51
abdominal wall 54.3
Skene's gland 71.3
skin (local) 86.3
  for graft (with closure of donor site)
    86.91
radical (wide) (involving underlying or
  adjacent structure) (with flap
closure) 86.4
tags
  perianal 49.03
  periauricular 18.29
soft tissue NEC 83.49
hand 82.29
spermatocele 63.2
spinal process 77.89
spleen (total) 41.5
  accessory 41.93
partial 41.43
Excision ---Cont.

**stomach** ---see **Gastrectomy**

**sublingual gland (salivary)** ---see also

Excision, salivary gland 26.30

**submaxillary gland** ---see also Excision, salivary gland 26.30

**supernumerary**

breast 85.24
digits 86.26
sweat gland 86.3
synechiae ---see also Lysis, synechiae endometrial 68.21
tarsal plate (eyelid) 08.20
  by wedge resection 08.24
tattoo 86.3
  by dermabrasion 86.25
tendon (sheath) 83.42
  for graft 83.41
  hand 82.32
  hand 82.33
  for graft 82.32
thymus ---see also Thyrmectomy 07.80
thyroglossal duct or tract (with resection of hyoid bone) 06.7
thyroid NEC ---see also Thyroidectomy 06.39
tongue (complete) (total) 25.3
  partial or subtotal 25.2
  radical 25.4
tonsil 28.2
  with adenoidectomy 28.3
  lingual 28.5
tag 28.4
tooth NEC ---see also Removal, tooth, surgical 23.19
  from nasal sinus 22.60
torus
  lingual 76.2
  mandible, mandibularis 76.2
  palate, palatinus 27.31
  by wide excision 27.32
trabeculae carneae cordis (heart) 35.35
trochanteric lipomatosis 86.83
tumor ---see Excision, lesion, by site
  ulcer ---see also Excision, lesion, by site
  duodenum 45.31
  endoscopic 45.30
  stomach 43.42
  endoscopic 43.41
umbilicus 54.3
urachus, urachal (cyst) (bladder) 57.51
  abdominal wall 54.3
ureter, urethral 56.40
  with nephrectomy ---see Nephrectomy
  partial 56.41
  stricture 56.41
  total 56.42
ureterocele 56.41

Excision ---Cont.

urethra, urethral 58.39
  endoscopic 58.31
  with complete cystectomy 57.79
  septum 58.0
  stricture 58.39
  endoscopic 58.31
  valve (congenital) 58.39
  endoscopic (transurethral) (transvesical) 58.31
urethrovaginal septum 70.33
uterus (corpus) ---see also Hysterectomy 68.9
  cervix 67.4
  lesion 67.39
  lesion 68.29
  septum 68.22
uvula 27.72
vagina (total) 70.4
varicocele, spermatic cord 63.1
vein ---see also Phlebectomy 38.60
  varicose 38.50
  abdominal 38.57
  head and neck NEC 38.52
  intracranial NEC 38.51
  lower limb 38.59
  ovarian 38.67
  thoracic NEC 38.55
  upper limb 38.53
verruca ---see also Excision, lesion, by site
  eyelid 08.22
vesicovaginal septum 70.33
vitreous opacity 14.74
  anterior approach 14.73
vocal cord(s) (submucous) 30.22
vulva (bilateral) (simple) ---see also Vulvectomy 71.62
wart ---see also Excision, lesion, by site
  eyelid 08.22
  wolffian duct 69.19
xanthoma (tendon sheath, hand) 83.31
  site other than hand 83.31

Excisional biopsy ---see Biopsy

Exclusion

left atrial appendage 37.36
pyloric
  laparoscopic 44.38
  open 44.39

Exenteration

ethmoid air cells 22.63
orbit 16.59
  with
    removal of adjacent structures 16.51
    temporalis muscle transplant 16.59
    therapeutic removal of bone 16.52
pelvic (organs) (female) 68.8
male 57.71
petrous pyramid air cells 20.59
Exercise (physical therapy) NEC 93.19
active musculoskeletal NEC 93.12
assisting 93.11
in pool 93.31
breathing 93.18
musculoskeletal
active NEC 93.12
passive NEC 93.17
neurologic 89.13
passive musculoskeletal NEC 93.17
resistive 93.13
Exfoliation, skin, by chemical 86.24
Exostectomy --see also Excision, lesion, bone 77.60
first metatarsal (hallux valgus repair)
--see Bunionectomy
hallux valgus repair (with wedge osteotomy) --see Bunionectomy
Expiratory flow rate 89.38
Explant, explantation --see Removal
Exploration --see also Incision
abdomen 54.11
abdominal wall 54.0
adrenal (gland) 07.41
field 07.00
bilateral 07.02
unilateral 07.01
artery 38.00
abdominal 38.06
aorta (arch) (ascending) (descending) 38.04
head and neck NEC 38.02
intracranial NEC 38.01
lower limb 38.08
thoracic NEC 38.05
upper limb 38.03
auditory canal, external 18.02
axilla 86.09
bile duct(s) 51.59
common duct 51.51
endoscopic 51.11
for
relief of obstruction 51.42
endoscopic 51.84
removal of calculus 51.41
endoscopic 51.88
laparoscopic 51.11
for relief of obstruction 51.49
endoscopic 51.84
bladder (by incision) 57.19
endoscopic 57.32
through stoma (artificial) 57.31
bone --see also Incision, bone 77.10
brain (tissue) 01.39
breast 85.0
bronchus 33.0
endoscopic --see Bronchoscopy
bursa 83.03
hand 82.03
Exploration --Cont.
carotid body 39.8
carpal tunnel 04.43
choroid 14.9
ciliary body 12.44
colon 45.03
common bile duct 51.51
endoscopic 51.11
for
relief of obstruction 51.42
endoscopic 51.84
removal of calculus 51.41
endoscopic 51.88
coronary artery 36.99
cranium 01.24
cul-de-sac 70.12
endoscopic 70.22
disc space 03.09
duodenum 45.01
endoscopic --see Endoscopy, by site
eyelid 08.09
fallopian tube 66.01
fascia 83.09
hand 82.09
flank 54.0
fovea (superficial) NEC 86.09
pituitary 07.71
frontal sinus 22.41
frontonasal duct 96.21
gallbladder 51.04
groin (region) (abdominal wall) (inguinal) 54.0
skin and subcutaneous tissue 86.09
heart 37.11
hepatic duct 51.59
hypophysis 07.72
ileum 45.02
inguinal canal (groin) 54.0
intestine (by incision) NEC 45.00
large 45.03
small 45.02
intrathoracic 34.02
jejenum 45.02
joint structures --see also Arthrotomy 80.10
kidney 55.01
pelvis 55.11
labia 71.09
lacrimal
--see also Incision
large 09.0
small 09.53
laparotomy site 54.12
larynx (by incision) 31.3
endoscopic 31.42
liver 50.0
lung (by incision) 33.1
**Exploration** ---Cont.

- lymphatic structure(s) (channel) (node) (vessel) **40.0**
- mastoid **20.21**
- maxillary antrum or sinus (Caldwell- Luc approach) **22.39**
- mediastinum **34.1**
  - endoscopic **34.22**
- middle ear (trans tympanic) **20.23**
- muscle **83.02**
  - hand **82.02**
- neck --see also Exploration, thyroid **06.09**
- nerve (cranial) (peripheral) NEC **04.04**
  - auditory **04.01**
  - root (spinal) **03.09**
- nose **21.1**
- orbit --see also Orbitotomy **16.09**
- pancreas **52.09**
  - endoscopic **52.13**
  - pancreatic duct **52.09**
  - endoscopic **52.13**
- pelvis (by laparotomy) **54.11**
  - by colpotomy **70.12**
- penis **64.92**
- perinephric area **59.09**
- perineum (female) **71.09**
  - male **86.09**
- peripheral vessels
  - lower limb
    - artery **38.08**
    - vein **38.09**
  - upper limb (artery) (vein) **38.03**
- periprostatic tissue **60.81**
- perirenal tissue **59.09**
- perivesical tissue **59.19**
- petrous pyramid air cells **20.22**
- pilonidal sinus **86.03**
- pineal (gland) **07.52**
  - field **07.51**
- pituitary (gland) **07.72**
  - fossa **07.71**
- pleura **34.09**
- popliteal space **86.09**
- prostate **60.0**
- rectum --see also Proctoscopy **48.23**
  - by incision **48.0**
- retroperitoneum **54.0**
- retropubic **59.19**
- salivary gland **26.0**
- sclera (by incision) **12.89**
- scrotum **61.0**
- shunt
  - ventriculoperitoneal at peritoneal site **54.95**
  - ventricular site **02.41**
- sinus
  - ethmoid **22.51**
  - frontal **22.41**

**Exploration** -sinus ---Cont.

- maxillary (Caldwell- Luc approach) **22.39**
- sphenoid **22.52**
- tract, skin and subcutaneous tissue **86.09**
- skin **86.09**
- soft tissue NEC **83.09**
  - hand **82.09**
- spermatic cord **63.93**
- sphenoidal sinus **22.52**
- spinal (canal) (nerve root) **03.09**
- spleen **41.2**
- stomach (by incision) **43.0**
  - endoscopic --see Gastroscopy
- subcutaneous tissue **86.09**
- subdiaphragmatic space **54.11**
- superficial fossa **86.09**
- tarsal tunnel **04.44**
- tendon (sheath) **83.01**
  - hand **82.01**
- testes **62.0**
- thymus (gland) **07.92**
  - field **07.91**
  - thoracic **07.95**
- thyroid (field) (gland) (by incision) **06.09**
  - postoperative **06.02**
- trachea (by incision) **31.3**
  - endoscopic --see Tracheoscopy
- tunica vaginalis **61.0**
- tympanum **20.09**
  - transtympanic route **20.23**
- ureter (by incision) **56.2**
  - endoscopic **56.31**
- urethra (by incision) **58.0**
  - endoscopic **58.22**
- uterus (corpus) **68.0**
  - cervix **69.95**
  - digital **68.11**
  - postpartal, manual **75.7**
  - vagina (by incision) **70.14**
  - endoscopic **70.21**
- vas deferens **63.6**
- vein **38.00**
  - abdominal **38.07**
  - head and neck NEC **38.02**
  - intracranial NEC **38.01**
  - lower limb **38.09**
  - thoracic NEC **38.05**
  - upper limb **38.03**
- vulva (by incision) **71.09**

**Exposure** --see also Incision, by site

- tooth (for orthodontic treatment) **24.6**

**Expression, trachoma follicles** **10.33**

**Exsanguination transfusion** **99.01**

**Extension**

- buccal labial sulcus **24.91**
- limb, forced **93.25**
- lingual sulcus **24.91**
- mandibular ridge **76.43**
Exteriorization

esophageal pouch 42.12
intestine 46.03
large 46.03
small 46.01
maxillary sinus 22.9
pilonidal cyst or sinus (open excision)
(with partial closure) 86.21

Exteripation --see also Excision, by site
aneurysm --see Aneurysmectomy
arteriovenous fistula --see Aneurysmectomy
lacrimal sac 09.6
larynx 30.3
with radical neck dissection (with synchronous thyroidectomy) (with synchronous tracheostomy) 30.4
nerve, tooth --see also Therapy,
root canal 23.70
varicose vein(peripheral)(lower limb) 38.59
upper limb 38.53

Extracorporeal

circulation(regional), except hepatic 39.61
hepatic 50.92
percutaneous 39.66
hemodialysis 39.95
membrane oxygenation (ECMO) 39.65
photopheresis, therapeutic 99.88
shockwave lithotripsy (ESWL) NEC 98.59
bile duct 98.52
bladder 98.51
gallbladder 98.52
kidney 98.51
renal pelvis 98.51
specified site NEC 98.59
ureter 98.51

Extracranial- intracranial bypass [EC- IC] 39.28

Extraction

breech (partial) 72.52
with forceps to aftercoming head 72.51
total 72.54
with forceps to aftercoming head 72.53

cataract 13.19
after cataract (by)
capsulectomy 13.65
capsulotomy 13.64
discission 13.64
excision 13.65
iridocapsulectomy 13.65
mechanical fragmentation 13.66
needling 13.64
phacofragmentation(mechanical) 13.66
aspiration (simple) (with irrigation) 13.3
cryoextraction (intracapsular approach) 13.19
temporal inferior route (in presence of fistulization bleb) 13.11

Extraocular

curette evacuation (extracapsular approach) 13.2
emulsification (and aspiration) 13.41
erysiphake (intracapsular approach) 13.19
temporal inferior route (in presence of fistulization bleb) 13.11
extracapsular approach (with iridectomy) NEC 13.59
by temporal inferior route (in presence of fistulization bleb) 13.51
aspiration(simple)(with irrigation) 13.3
curette evacuation 13.2
emulsification (and aspiration) 13.41
linear extraction 13.2
mechanical fragmentation with aspiration by posterior route 13.42
specified route NEC 13.43
phacoemulsification (ultrasonic) (with aspiration) 13.41
phacofragmentation (mechanical) with aspiration by posterior route 13.42
specified route NEC 13.43
ultrasonic (with aspiration) 13.41
rotoextraction (mechanical) with aspiration by posterior route 13.42
specified route NEC 13.43
intracapsular (combined) (simple) (with iridectomy) (with suction) (with zonulolysis) 13.19
by temporal inferior route (in presence of fistulization bleb) 13.11
linear extraction (extracapsular approach) 13.2
phacoemulsification (and aspiration) 13.41
phacofragmentation (mechanical) with aspiration by posterior route 13.42
specified route NEC 13.43
ultrasonic 13.41
rotoextraction (mechanical) with aspiration by posterior route 13.42
specified route NEC 13.43
secondary membranous (after cataract) (by)
capsulectomy 13.65
capsulotomy 13.64
discission 13.64
excision 13.65
iridocapsulectomy 13.65
mechanical fragmentation 13.66
needling 13.64
phacofragmentation(mechanical) 13.66
Extraction —— Cont.
common duct stones (percutaneous)
  (through sinus tract)(with basket)
    51.96
foreign body --see Removal, foreign
  body
kidney stone(s), percutaneous 55.03
  with fragmentation procedure 55.04
lens (eye) --see also Extraction, cataract
    13.19
Malstrom’s 72.79
  with episiotomy 72.71
menstrual, menses 69.6
milk from lactating breast (manual)
  (pump) 99.98
tooth (by forceps) (multiple) (single)
  NEC 23.09
  with mucoperiosteal flap elevation
    23.19
deciduous 23.01
surgical NEC --see also Removal,
  tooth, surgical 23.19
vacuum, fetus 72.79
  with episiotomy 72.71
vitreous --see also Removal, vitreous
    14.72
F

Face lift 86.82
Facetectomy 77.89
Facilitation, intraocular circulation NEC 12.59
Failed (trial) forceps 73.3
Family
counselling (medical) (social) 94.49
therapy 94.42
Farabeuf operation (ischiopubiotomy) 77.39
Fasanella-Servatt operation (blepharoptosis repair) 08.35
Fasciaplasty --see Fascioplasty
Fascia sling operation --see Operation, sling
Fasciectomy 83.44
for graft 83.43
hand 82.34
for graft 83.43
hand 82.35
palmar (release of Dupuytren's contracture) 82.35
Fasciodesis 83.89
hand 82.89
Fascioplasty --see also Repair, fascia 83.89
hand--see also Repair, fascia, hand 82.89
Fasciorrhaphy --see Suture, fascia
Fasciotomy 83.14
Dupuytren's 82.12
with excision 82.35
Dwyer 83.14
hand 82.12
Ober-Yount 83.14
orbital --see also Orbitotomy 16.09
palmar (release of Dupuytren's contracture) 82.12
with excision 82.35
Fenestration
aneurysm (dissecting), thoracic aorta 39.54
aortic aneurysm 39.54
cardiac valve 35.10
chest wall 34.01
ear
inner (with graft) 20.61
revision 20.62
tympanic 19.55
labyrinth (with graft) 20.61
Lempert's (endaural) 19.9
operation (aorta) 39.54
oval window, ear canal 19.55
palate 27.1
pericardium 37.12
semicircular canals (with graft) 20.61
stapes foot plate (with vein graft) 19.19
with incus replacement 19.11
tympanic membrane 19.55
vestibule (with graft) 20.61
Ferguson operation (hernia repair) 53.00
Fetography 87.81
Fetoscopy 75.31
Fiberscopy --see Endoscopy, by site
 Fibrodecomy, uterine 68.29
Fick operation (perforation of foot plate) 19.0
Filipuncture (aneurysm) (cerebral) 39.52
Filleting
hammer toe 77.56
pancreas 52.3
Filling, tooth (amalgam)(plastic)(silicate) 23.2
root canal --see also Therapy, root canal 23.70
Fimbriectomy --see also Salpingectomy, partial 66.69
Uchida (with tubal ligation) 66.32
Finney operation (pyloroplasty) 44.29
Fissurectomy, anal 49.39
endoscopic 49.31
skin (subcutaneous tissue) 49.04
Fistulectomy --see also Closure, fistula, by site
abdominotheracic 34.83
abdominouterine 69.42
anus 49.12
appendix 47.92
bile duct 51.79
branchial cleft 29.52
bronchocutaneous 33.42
bronchoesophageal 33.42
bronchomediastinal 34.73
bronchopleural 34.73
bronchopneumoncutaneous 34.73
bronchopneumomediastinal 34.73
bronchovisceral 33.42
cervicosigmoidal 67.62
cholecystogastroenteric 51.93
cornea 11.49
diaphragm 34.83
enterouterine 69.42
esophaglehemocutaneous 34.73
esophagus NEC 42.84
fallopian tube 66.73
gallbladder 51.93
gastric NEC 44.63
hepatic duct 51.79
hepatopleural 34.73
hepatopulmonary 34.73
intestine
large 46.76
small 46.74
intestinouterine 69.42
joint --see also Excision, lesion, joint 80.80
### Fistulectomy—Cont.

- lacrimal gland **09.21**
- lacrimal sac **09.6**
- laryngotracheal **31.62**
- larynx **31.62**
- mediastinocutaneous **34.73**
- mouth NEC **27.53**
- nasal sinus **22.71**
- nasolabial **21.82**
- nasopharyngeal **21.82**
- oroantral **22.71**
- oronasal **21.82**
- pancreas **52.95**
- perineorectal **71.72**
- perineosigmoidal **71.72**
- perirectal, not opening into rectum **48.93**
- pharyngoesophageal **29.53**
- pharynx NEC **29.53**
- pleura **34.73**
- rectolabial **71.72**
- rectourethral **58.43**
- rectouterine **70.73**
- rectovesical **57.83**
- rectovulvar **71.72**
- rectum **48.73**
- salivary (duct) (gland) **26.42**
- scrotum **61.42**
- skin **86.3**
- stomach NEC **44.63**
- subcutaneous tissue **86.3**
- thoracoabdominal **34.83**
- thoracogastic **34.83**
- thoracointestinal **34.83**
- thorax NEC **34.73**
- trachea NEC **31.73**
- tracheoesophageal **31.73**
- ureter **56.84**
- urethra **58.43**
- uterine cervical **69.42**
- uterine isthmic **69.42**
- uterinefundal **69.42**
- vagina **70.75**
- vesicosigmoidovaginal **57.83**
- vocal cords **31.62**
- vulvovaginal **71.72**

### Fistulization—Cont.

- labyrinth (for decompression) **20.79**
- lacrimal sac into nasal cavity **09.81**
- larynx **31.29**
- lymphatic duct, left (thoracic) **40.62**
- orbit **16.09**
- peritoneal **54.93**
- salivary gland **26.49**
- sclera **12.69**
  - by trephination **12.61**
  - with iridectomy **12.65**
- sinus, nasal NEC **22.9**
- subarachnoid space **02.2**
- thoracic duct **40.62**
- trachea **31.29**
- tracheoesophageal **31.95**
- urethrovaginal **58.0**
- ventricle, cerebral—see also Shunt, ventricular **02.2**

### Fistulogram

- abdominal wall **88.03**
- chest wall **87.38**
- retroperitoneum **88.14**
- specified site NEC **88.49**

### Fistulotomy, anal

- **49.11**

### Fitting

- arch bars (orthodontic) **24.7**
- for immobilization (fracture) **93.55**
- artificial limb **84.40**
- contact lens **95.32**
- denture (total) **99.97**
  - bridge (fixed) **23.42**
  - removable **23.43**
- hearing aid **95.48**
- obturator (orthodontic) **24.7**
- ocular prosthetics **95.34**
- orthodontic appliance **24.7**
- obturator **24.7**
- wiring **24.7**
- orthotic device **93.23**
- periodontal splint (orthodontic) **24.7**
- prosthesis, prosthetic device
  - above knee **84.45**
  - arm **84.43**
  - lower (and hand) **84.42**
  - upper (and shoulder) **84.41**
- below knee **84.46**
- hand (and lower arm) **84.42**
- leg **84.47**
  - above knee **84.45**
  - below knee **84.46**
- limb NEC **84.40**
- ocular **95.34**
- penis (external) **64.94**
- shoulder (and upper arm) **84.41**
- spectacles **95.31**
Five-in-one repair, knee 81.42

Fixation

- bone
  - external, without reduction 93.59
  - with fracture reduction
    --see Reduction, fracture
  - cast immobilization NEC 93.53
- external fixator --see Fixator, external
  - splint 93.54
  - traction (skeletal) NEC 93.44
  - intermittent 93.43
- internal (without fracture reduction) 78.50
  - with fracture reduction
    --see Reduction, fracture
  - carpal, metacarpal 78.54
  - clavicle 78.51
  - femur 78.55
  - fibula 78.57
  - humerus 78.52
  - patella 78.56
  - pelvic 78.59
  - phalanges (foot) (hand) 78.59
  - radius 78.53
  - scapula 78.51
  - specified site NEC 78.59
  - tarsal, metatarsal 78.58
  - thorax (ribs) (sternum) 78.51
  - tibia 78.57
  - ulna 78.53
  - vertebrae 78.59
  - breast (pendulous) 85.6
  - cardinal ligaments 69.22
  - cervical collar 93.52
  - duodenum 46.62
    - to abdominal wall 46.61
  - external (without manipulation for reduction) 93.59
    - with fracture reduction
      --see Reduction, fracture
    - cast immobilization NEC 93.53
  - femur 78.55
  - pressure dressing 93.56
  - splint 93.54
  - strapping (non-traction) 93.59
  - traction (skeletal) NEC 93.44
    - intermittent 93.43
- hip 81.40
  - ileum 46.62
    - to abdominal wall 46.61
- internal
  - with fracture reduction
    --see Reduction, fracture
  - without fracture reduction
    --see Fixation, bone, internal
- intestine 46.60
  - large 46.64
    - to abdominal wall 46.63

Fixation - intestine ---Cont.
- small 46.62
  - to abdominal wall 46.61
    - to abdominal wall 46.61
  - iris (bombé) 12.11
  - jejunum 46.62
    - to abdominal wall 46.61
  - joint --see Arthroplasty
  - kidney 55.7
  - ligament
    - cardinal 69.22
    - palpebrae 08.36
  - omentum 54.74
    - parametrial 69.22
    - plaster jacket 93.53
    - other cast 93.53
    - rectum (slings) 48.76
  - spine, with fusion --see also Fusion, spinal 81.00
    - spleen 41.95
    - splint 93.53
    - tendon 83.88
    - hand 82.85
    - testis in scrotum 62.5
    - tongue 25.59
    - urethrovaginal (to Cooper's ligament) 70.77
    - with graft or prosthesis 70.78
    - uterus (abdominal) (vaginal) (ventrofixation) 69.22
    - vagina 70.77
    - with graft or prosthesis 70.78

Fixator, external
- computer assisted (dependent) 84.73
- hybrid device or system 84.73
- Ilizarov type 84.72
- monoplanar system 84.71
- ring device or system 84.72
- Sheffield type 84.72

Flooding (psychologic desensitization) 94.33

Flowmetry, Doppler (ultrasonic) --see also
  - Ultrasonography
    - aortic arch 88.73
    - head and neck 88.71
    - heart 88.72
    - thorax NEC 88.73

Fluoroscopy --see Radiography

Fog therapy (respiratory) 93.94

Folding, eye muscle 15.22
- multiple (two or more muscles) 15.4

Foley operation (pyeloplasty) 55.87

Fontan operation (creation of conduit between right atrium and pulmonary artery) 35.94

Foraminotomy 03.09

Forced extension, limb 93.25

Forceps delivery --see Delivery, forceps

Formation
- adhesions
  - pericardium 36.39
  - pleura 34.6
Formation ---Cont.
anus, artificial --see Colostomy
duodenostomy 46.39
ileostomy --see Ileostomy
jejunostomy 46.39
percutaneous (endoscopic) (PEJ) 46.32
arteriovenous fistula (for kidney dialysis) (peripheral) (shunt) 39.27
external cannula 39.93
cardiac device (defibrillator) (pacemaker) pocket
with initial insertion of cardiac device --omit code
new site (skin)(subcutaneous) 37.79
colostomy --see Colostomy conduit
ileal (urinary) 56.51
left ventricle and aorta 35.93
right atrium and pulmonary artery 35.94
right ventricle and pulmonary (distal) artery 35.92
in repair of pulmonary artery atresia 35.92
transposition of great vessels 35.92
truncus arteriosus 35.83
endorectal ileal pouch (J-pouch) (H-pouch) (S-pouch) (with anastomosis to anus) 45.95
fistula
arteriovenous (for kidney dialysis) (peripheral shunt) 39.27
external cannula 39.93
bladder to skin NEC 57.18
with bladder flap 57.21
percutaneous 57.17
cutaneoperitoneal 54.93
gastric 43.19
percutaneous (endoscopic) (transabdominal) 43.11
mucous --see also Colostomy 46.13
rectovaginal 48.99
tracheoesophageal 31.95
tubulovalvar (Beck-Jianu) (Frank's) (Janeway) (Spivack's) (Ssabanejew-Frank) 43.19
ureterovaginal 58.0
ileal
bladder
closed 57.87 [45.51]
open 56.51
conduit 56.51
interatrial fistula 35.42
mucous fistula --see Colostomy pericardial
baffle, interatrial 35.91
window 37.12
pleural window (for drainage) 34.09
Formation - pericardial ---Cont.
pocket
 cardiac device (defibrillator) (pacemaker) with initial insertion of cardiac device --omit code
new site (skin)(subcutaneous) 37.79
loop recorder 37.79
thalamic stimulator pulse generator with initial insertion of battery package --omit code
new site (skin)(subcutaneous) 86.09
pupil 12.39
by iridectomy 12.14
rectovaginal fistula 48.99
reversed gastric tube (intrathoracic) (retrosternal) 42.58
antesternal or antethoracic 42.68
septal defect, interatrial 35.42
shunt
abdominovenous 54.94
arteriovenous 39.93
peritoneovenous 54.94
peritoneo-vascular 34.05
transjugular intrahepatic portosystemic (TIPS) 39.1
subcutaneous tunnel esophageal 42.86
with anastomosis --see Anastomosis, esophagus, antesternal pulse generator lead wire 86.99
with initial procedure --omit code
thalamic stimulator pulse generator pocket with initial insertion of battery package --omit code
new site (skin)(subcutaneous) 86.09
syndactyly (finger) (toe) 86.89
tracheoesophageal 31.95
tubulovalvar fistula (Beck-Jianu) (Frank's) (Janeway) (Spivack's) (Ssabanejew-Frank) 43.19
uretero-ileostomy, cutaneous 56.51
ureterostomy, cutaneous 56.61
ileal 56.51
urethrovaginal fistula 58.0
window
pericardial 37.12
pleural (for drainage) 34.09
thoracoscopic 34.06
Fothergill (-Donald) operation (uterine suspension) 69.22
Fowler operation
arthroplasty of metacarpophalangeal joint 81.72
release (mallet finger repair) 82.84
tenodesis (hand) 82.85
thoracoplasty 33.34
Fox operation (entropion repair with wedge resection) 08.43
Fracture, surgical --see also Osteoclasis  
78.70

turbinates (nasal) 21.62

Fragmentation

lithotripter --see Lithotripsy
mechanical

cataract (with aspiration) 13.43
posterior route 13.42
secondary membrane 13.66
secondary membrane (after cataract) 13.66
ultrasonic

cataract (with aspiration) 13.41
stones, urinary (Kock pouch) 59.95
urinary stones 59.95
percutaneous nephrostomy 55.04

Franco operation (suprapubic cystotomy)  
57.18

Frank operation (permanent gastrostomy)  
43.19

Frazier (-Spiller) operation (subtemporal trigeminal rhizotomy) 04.02

Fredet-Ramstedt operation (pyloromyotomy) (with wedge resection) 43.3

Freeing

adhesions --see Lysis, adhesions
anterior synechiae (with injection of air or liquid) 12.32
artery-vein-nerve bundle 39.91
extraocular muscle, entrapped 15.7
goniosynechiae (with injection of air or liquid) 12.31
intestinal segment for interposition 45.50
large 45.52
small 45.51
posterior synechiae 12.33
synechiae (posterior) 12.33
anterior (with injection of air or liquid) 12.32
vascular bundle 39.91
vessel 39.91

Freezing

gastric 96.32
prostate 60.62

Frenckner operation (intrapetrosal drainage) 20.22

Frenectomy

labial 27.41
lingual 25.92
lip 27.41
maxilllary 27.41
tongue 25.92

Frenotomy

labial 27.91
lingual 25.91

Frenullectomy --see Frenectomy

Frickman operation (abdominal proctopexy) 48.75

Frommel operation (shortening of utero-sacral ligaments) 69.22

Fulgaration --see also Electrocoagulation and Destruction, lesion, by site

adenoid fossa 28.7
anus 49.39
endoscopic 49.31
bladder (transurethral) 57.49
suprapubic 57.59
choroid 14.21
duodenum 45.32
endoscopic 45.30
esophagus 42.39
endoscopic 42.33
large intestine 45.49
endoscopic 45.43
polypectomy 45.42
penis 64.2
perineum, female 71.3
prostate, transurethral 60.29
rectum 48.32
radical 48.31
retina 14.21
scrotum 61.3
Skene's gland 71.3
skin 86.3
small intestine NEC 45.34
duodenum 45.32
endoscopic 45.30
stomach 43.49
endoscopic 43.41
subcutaneous tissue 86.3
tonsillar fossa 28.7
urethra 58.39
endoscopic 58.31
vulva 71.3

Function

study --see also Scan, radioisotope
gastric 89.39
muscle 93.08
ocular 95.25
nasal 89.12
pulmonary --see categories 89.37-89.38
renal 92.03
thyroid 92.01
urethral sphincter 89.23

Fundectomy, uterine 68.39

Fundoplication (esophageal) (Nissen's) 44.66
laparoscopic 44.67

Fundusectomy, gastric 43.89

Fusion

atlas-axis (spine) --see Fusion, spinal, atlas-axis
bone --see also Osteoplasty 78.40
cervical (spine) (C2 level or below)
--see Fusion, spinal, cervical
claw toe 77.57
craniocephalic --see Fusion, spinal, craniocephalic
Fusion --Cont.

dorsal, dorsolumbar --see Fusion, spinal, dorsal, dorsolumbar
epiphysial-diaphysial --see also Arrest, bone growth 78.20
epiphysiodesis --see also Arrest, bone growth 78.20
hammer toe 77.56
joint (with bone graft) --see also Arthrodesis 81.20
ankle 81.11
claw toe 77.57
foot NEC 81.17
hammer toe 77.56
hip 81.21
interphalangeal, finger 81.28
ischiofemoral 81.21
metatarsophalangeal 81.16
midtarsal 81.14
overlapping toe(s) 77.58
pantalar 81.11
spinal --see also Fusion, spinal 81.00
subtalar 81.13
tarsal joints NEC 81.17
tarsometatarsal 81.15
tibiotalar 81.11
toe NEC 77.58
claw toe 77.57
hammer toe 77.56
overlapping toe(s) 77.58
lip to tongue 25.59
lumbar, lumbosacral --see Fusion, spinal, lumbar, lumbosacral
occiput-C2 (spinal) --see Fusion, spinal, occiput
spinal (with graft) (with internal fixation) (with instrumentation) 81.00
anterior lumbar interbody fusion (ALIF) 81.06
atlas-axis (anterior transoral) (posterior) 81.01
for pseudarthrosis 81.31

Fusion -spinal --Cont.
cervical (C2 level or below) NEC 81.02
anterior (interbody), anterolateral technique 81.02
for pseudarthrosis 81.32
C1-C2 level (anterior)(posterior) 81.01
for pseudarthrosis 81.31
for pseudarthrosis 81.32
posterior (interbody), posterolateral technique 81.03
for pseudarthrosis 81.33
craniocervical (anterior transoral) (posterior) 81.01
for pseudarthrosis 81.31
dorsal, dorsolumbar NEC 81.08
anterior (interbody), anterolateral technique 81.05
for pseudarthrosis 81.34
for pseudarthrosis 81.35
posterior (interbody), posterolateral technique 81.05
for pseudarthrosis 81.35
lumbar, lumbosacral NEC 81.08
anterior (interbody), anterolateral technique 81.06
for pseudarthrosis 81.36
for pseudoarthrosis 81.38
lateral transverse process technique 81.07
for pseudarthrosis 81.37
posterior (interbody), posterolateral technique 81.08
for pseudarthrosis 81.38
number of vertebrae --see codes 81.62 - 81.64
occiput-C2 (anterior transoral) (posterior) 81.01
for pseudarthrosis 81.31
posterior lumbar interbody fusion (PLIF) 81.08
transforaminal lumbar interbody fusion (TLIF) 81.08

Note: Also use either 81.62, 81.63, or 81.64 as an additional code to show the total number of vertebrae fused

tongue (to lip) 25.59
<table>
<thead>
<tr>
<th>G</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gait training</strong> 93.22</td>
<td></td>
</tr>
<tr>
<td><strong>Galeaplasty</strong> 86.89</td>
<td></td>
</tr>
<tr>
<td><strong>Galvanoionization</strong> 99.27</td>
<td></td>
</tr>
<tr>
<td><strong>Games</strong></td>
<td></td>
</tr>
<tr>
<td>competitive 94.39</td>
<td></td>
</tr>
<tr>
<td>organized 93.89</td>
<td></td>
</tr>
<tr>
<td><strong>Gamma irradiation, stereotactic</strong> 92.32</td>
<td></td>
</tr>
<tr>
<td><strong>Ganglionectomy</strong></td>
<td></td>
</tr>
<tr>
<td>gasserian 04.05</td>
<td></td>
</tr>
<tr>
<td>lumbar sympathetic 05.23</td>
<td></td>
</tr>
<tr>
<td>nerve (cranial) (peripheral) NEC 04.06</td>
<td></td>
</tr>
<tr>
<td>sympathetic 05.29</td>
<td></td>
</tr>
<tr>
<td>sphenopalatine (Meckel's) 05.21</td>
<td></td>
</tr>
<tr>
<td>tendon sheath (wrist) 82.21</td>
<td></td>
</tr>
<tr>
<td>site other than hand 83.31</td>
<td></td>
</tr>
<tr>
<td>trigeminal 04.05</td>
<td></td>
</tr>
<tr>
<td><strong>Ganglionotomy, trigeminal (radiofrequency)</strong> 04.02</td>
<td></td>
</tr>
<tr>
<td><strong>Gant operation</strong> (wedge osteotomy of trochanter) 77.25</td>
<td></td>
</tr>
<tr>
<td><strong>Garceau operation</strong> (tibial tendon transfer) 83.75</td>
<td></td>
</tr>
<tr>
<td><strong>Gardner operation</strong> (spinal meningocele repair) 03.51</td>
<td></td>
</tr>
<tr>
<td><strong>Gas endarterectomy</strong> 38.10</td>
<td></td>
</tr>
<tr>
<td>abdominal 38.16</td>
<td></td>
</tr>
<tr>
<td>aorta (arch)(ascending)(descending) 38.14</td>
<td></td>
</tr>
<tr>
<td>coronary artery 36.09</td>
<td></td>
</tr>
<tr>
<td>head and neck NEC 38.12</td>
<td></td>
</tr>
<tr>
<td>intracranial NEC 38.11</td>
<td></td>
</tr>
<tr>
<td>lower limb 38.18</td>
<td></td>
</tr>
<tr>
<td>thoracic NEC 38.15</td>
<td></td>
</tr>
<tr>
<td>upper limb 38.13</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrectomy</strong> (partial) (subtotal) NEC 43.89</td>
<td></td>
</tr>
<tr>
<td>with anastomosis (to) NEC 43.89</td>
<td></td>
</tr>
<tr>
<td>duodenum 43.6</td>
<td></td>
</tr>
<tr>
<td>esophagus 43.5</td>
<td></td>
</tr>
<tr>
<td>gastrogastric 43.89</td>
<td></td>
</tr>
<tr>
<td>jejunum 43.7</td>
<td></td>
</tr>
<tr>
<td>esophagogastrostomy 43.5</td>
<td></td>
</tr>
<tr>
<td>gastroduodenostomy (bypass) 43.6</td>
<td></td>
</tr>
<tr>
<td>gastroenterostomy (bypass) 43.7</td>
<td></td>
</tr>
<tr>
<td>gastrogastrostomy (bypass) 43.89</td>
<td></td>
</tr>
<tr>
<td>gastrojejunostomy (bypass) 43.7</td>
<td></td>
</tr>
<tr>
<td>jejunal transposition 43.81</td>
<td></td>
</tr>
<tr>
<td>complete NEC 43.99</td>
<td></td>
</tr>
<tr>
<td>with intestinal interposition 43.91</td>
<td></td>
</tr>
<tr>
<td>distal 43.6</td>
<td></td>
</tr>
<tr>
<td>Hofmeister 43.7</td>
<td></td>
</tr>
<tr>
<td>Polya 43.7</td>
<td></td>
</tr>
<tr>
<td>proximal 43.5</td>
<td></td>
</tr>
<tr>
<td>radical NEC 43.99</td>
<td></td>
</tr>
<tr>
<td>with intestinal interposition 43.91</td>
<td></td>
</tr>
<tr>
<td>total NEC 43.99</td>
<td></td>
</tr>
<tr>
<td>with intestinal interposition 43.91</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrocamera</strong> 44.19</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroduodenectomy</strong></td>
<td>see Gastrectomy</td>
</tr>
<tr>
<td><strong>Gastroduodenoscopy</strong></td>
<td>45.13</td>
</tr>
<tr>
<td>through stoma (artificial) 45.12</td>
<td></td>
</tr>
<tr>
<td>transabdominal (operative) 45.11</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroduodenostomy</strong> (bypass) (Jaboulay's) 44.39</td>
<td></td>
</tr>
<tr>
<td>with partial gastrectomy 43.6</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.38</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroenterostomy</strong> (bypass) NEC 44.39</td>
<td></td>
</tr>
<tr>
<td>with partial gastrectomy 43.7</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.38</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrogastrostomy</strong> (bypass) 44.39</td>
<td></td>
</tr>
<tr>
<td>with partial gastrectomy 43.7</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.38</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrojejunostomy</strong> (bypass) 44.39</td>
<td></td>
</tr>
<tr>
<td>with partial gastrectomy 43.7</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.38</td>
<td></td>
</tr>
<tr>
<td>percutaneous (endoscopic)</td>
<td></td>
</tr>
<tr>
<td>for bypass 44.32</td>
<td></td>
</tr>
<tr>
<td>for feeding tube placement 46.32</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrolysis</strong> 54.59</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 54.51</td>
<td></td>
</tr>
<tr>
<td><strong>Gastropexy</strong> 44.64</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroplasty NEC</strong> 44.69</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.68</td>
<td></td>
</tr>
<tr>
<td>vertical banded gastroplasty (VBG) 44.68</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroplication</strong> 44.69</td>
<td></td>
</tr>
<tr>
<td>laparoscopic 44.68</td>
<td></td>
</tr>
<tr>
<td><strong>Gastropylorectomy</strong> 43.6</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrorhaphy</strong> 44.61</td>
<td></td>
</tr>
<tr>
<td><strong>Gastroscopy NEC</strong> 44.13</td>
<td></td>
</tr>
<tr>
<td>through stoma (artificial) 44.12</td>
<td></td>
</tr>
<tr>
<td>transabdominal (operative) 44.11</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrostomy</strong> (Brunschwig's) (decompression)</td>
<td></td>
</tr>
<tr>
<td>(fine caliber tube) (Kader) (permanent)</td>
<td></td>
</tr>
<tr>
<td>(Stamm) (Stamm- Kader) (temporary) (tube) (Witzel) 43.19</td>
<td></td>
</tr>
<tr>
<td>Beck- Jiana 43.19</td>
<td></td>
</tr>
<tr>
<td>Frank's 43.19</td>
<td></td>
</tr>
<tr>
<td>Janeway 43.19</td>
<td></td>
</tr>
<tr>
<td>percutaneous (endoscopic) (PEG) 43.11</td>
<td></td>
</tr>
<tr>
<td>Spivack's 43.19</td>
<td></td>
</tr>
<tr>
<td>Ssabanejew-Frank 43.19</td>
<td></td>
</tr>
<tr>
<td><strong>Gastrotryptomy</strong> 43.0</td>
<td></td>
</tr>
<tr>
<td>for control of hemorrhage 44.49</td>
<td></td>
</tr>
<tr>
<td><strong>Gavage, gastric</strong> 96.35</td>
<td></td>
</tr>
<tr>
<td><strong>Gelman operation</strong> (release of clubfoot) 83.84</td>
<td></td>
</tr>
<tr>
<td><strong>Genioplasty</strong> (augmentation) (with graft)</td>
<td></td>
</tr>
<tr>
<td>(with implant) 76.68</td>
<td></td>
</tr>
<tr>
<td>reduction 76.67</td>
<td></td>
</tr>
<tr>
<td><strong>Ghormley operation</strong> (hip fusion) 81.21</td>
<td></td>
</tr>
<tr>
<td><strong>Gifford operation</strong></td>
<td></td>
</tr>
<tr>
<td>destruction of lacrimal sac 09.6</td>
<td></td>
</tr>
<tr>
<td>keratotomy (delimiting) 11.1</td>
<td></td>
</tr>
<tr>
<td>radial (refractive) 11.75</td>
<td></td>
</tr>
</tbody>
</table>
Gill operation  
arthrodiesis of shoulder 81.23  
laminectomy 03.09

Gill-Stein operation (carporadial arthrodesis) 81.25

Gilliam operation (uterine suspension) 69.22

Gingivectomy 24.31

Gingivoplasty (with bone graft) (with soft tissue graft) 24.2

Girdlestone operation  
laminectomy with spinal fusion 81.00  
muscle transfer for claw toe repair 77.57  
resection of femoral head and neck (without insertion of joint prosthesis) 77.85  
with replacement prosthesis  
--see Implant, joint, hip  
resection of hip prosthesis 80.05  
with replacement prosthesis  
--see Implant, joint, hip

Girdlestone-Taylor operation (muscle transfer for claw toe repair) 77.57

Glenn operation (anastomosis of superior vena cava to right pulmonary artery) 39.21

Glenopasty, shoulder 81.83  
with partial replacement 81.81  
total replacement 81.80  
for recurrent dislocation 81.82

Glomectomy  
carotid 39.8  
jugulare 20.51

Glossectomy (complete) (total) 25.3  
partial or subtotal 25.2  
radical 25.4

Glossopexy 25.59

Glossopasty NEC 25.59

Glossorrhaphy 25.91

Glossotomy NEC 25.94  
for tongue tie 25.91

Glycoprotein IIb/IIIa inhibitor, infusion 99.20

Goebel-Frangenheim-Stoeckel operation (urethrovesical suspension) 59.4

Goldner operation (clubfoot release) 80.48

Goldthwaite operation  
ankle stabilization 81.11  
patellar stabilization 81.44  
tendon transfer for stabilization of patella 81.44

Gonadectomy  
ovary  
bilateral 65.51  
laparoscopic 65.53  
unilateral 65.39  
laparoscopic 65.31  
testis  
bilateral 62.41  
unilateral 62.3

Goniopuncture 12.51  
with goniotomy 12.53

Gonioscopy 12.29

Gonioscopy 12.59

Goniotomy (Barkan's) 12.52  
with goniopuncture 12.53

Goodal-Power operation (vagina) 70.8

Gordon-Taylor operation (hindquarter amputation) 84.19

GP IIb/ IIIa inhibitor, infusion 99.20

Graber-Duvernay operation (drilling of femoral head) 77.15

Graft, grafting  
aneurysm 39.52  
endovascular  
abdominal aorta 39.71  
lower extremity artery(s) 39.79  
thoracic aorta 39.73  
upper extremity artery(s) 39.79  
artery, arterial (patch) 39.58  
with excision or resection of vessel --see  
Arterectomy, with graft replacement  
synthetic patch (Dacron) (Teflon) 39.57  
tissue patch (vein) (autogenous)  
(homograft) 39.56  
blood vessel (patch) 39.58  
with excision or resection of vessel --see  
Angiectomy, with graft replacement  
synthetic patch (Dacron) (Teflon) 39.57  
tissue patch (vein) (autogenous)  
(homograft) 39.56  
bone (autogenous) (bone bank) (dual onlay)  
(heterogenous) (inlay) (massive onlay)  
(multiple) (osteoperiosteal) (peg)  
(subperiosteal) (with metallic fixation) 78.00  
with arthrodesis --see Arthrodesis  
arthroplasty --see Arthroplasty  
gingivoplasty 24.2  
lengthening --see Lengthening, bone carpals, metacarpals 78.04  
clavicle 78.01  
facial NEC 76.91  
with total ostectomy 76.44  
femur 78.05  
fibula 78.07  
humerus 78.02  
joint --see Arthroplasty  
mandible 76.91  
with total mandibulectomy 76.41  
marrow --see Transplant, bone, marrow  
nose --see Graft, nose  
patella 78.06  
pelvic 78.09  
periocular 02.04  
phalanges (foot) (hand) 78.09
**ICD-9-CM INDEX TO PROCEDURES (FY10)**

**Graft, grafting** -bone ---Cont.
- radius 78.03
- scapula 78.01
- skull 02.04
- specified site NEC 78.09
- spine 78.09
  - with fusion --see Fusion, spinal
- tarsal, metatarsal 78.08
- thorax (ribs) (sternum) 78.01
- thumb (with transfer of skin flap) 82.69
- tibia 78.07
- ulna 78.03
- vertebrae 78.09
- with fusion --see Fusion, spinal

**Graft, grafting** -hand ---Cont.
- free skin 86.62
- muscle 82.72
- pedicle (flap) 86.73
- tendon 82.79
- heart, for revascularization- see category 36.3
- joint --see Arthroplasty
- larynx 31.69
- lip 27.56
  - full-thickness 27.55
  - lymphatic structure(s) (channel) (node) (vessel) 40.9
- mediastinal fat to myocardium 36.39
- meninges (cerebral) 02.12
- mouth, except palate 27.56
  - full-thickness 27.55
- muscle 83.82
  - hand 82.72
- myocardium, for revascularization 36.39
- nasolabial flaps 21.86
- nerve (cranial) (peripheral) 04.5
- nipple 85.86
- nose 21.89
  - with
    - augmentation 21.85
    - rhinoplasty --see Rhinoplasty
    - total reconstruction 21.83
- septum 21.88
- tip 21.86
- omentum 54.74
  - to myocardium 36.39
- orbit (bone) (cartilage) (skin) 16.63
- outflow tract (patch) (pulmonary valve) 35.26
  - in total repair of tetralogy of Fallot 35.81
- ovary 65.92
- palate 27.69
  - for cleft palate repair 27.62
- pedicle --see Graft, skin, pedicle
- penis (rib) (skin) 64.49
- pigskin 86.65
- pinch --see Graft, skin, free
- pocket --see Graft, skin, pedicle
- porcine 86.65
- postauricular (Wolff) 18.79
- razor --see Graft, skin, free
- rope --see Graft, skin, pedicle
- saphenous vein in aortocoronary bypass
  --see Bypass, aortocoronary
- scrotum 61.49
- skin (partial- thickness) (split- thickness) 86.69
  - amnionic membrane 86.66
  - auditory meatus (ear) 18.6
  - dermal-fat 86.69
  - for breast augmentation 85.50
  - dermal regenerative 86.67
- ear
  - auditory meatus 18.6
  - postauricular 18.79
  - eyelid 08.61
  - flap --see Graft, skin, pedicle
### Graft, grafting - skin -pedicle --Cont.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lip</td>
<td>27.56</td>
</tr>
<tr>
<td>Thumb</td>
<td>86.62</td>
</tr>
<tr>
<td>For</td>
<td></td>
</tr>
<tr>
<td>Pollicization</td>
<td>82.61</td>
</tr>
<tr>
<td>Reconstruction</td>
<td>82.69</td>
</tr>
<tr>
<td>Full-thickness</td>
<td>86.63</td>
</tr>
<tr>
<td>Breast</td>
<td>85.83</td>
</tr>
<tr>
<td>Hand</td>
<td>86.61</td>
</tr>
<tr>
<td>Hair-bearing</td>
<td>86.64</td>
</tr>
<tr>
<td>Eyelid or eyebrow</td>
<td>08.63</td>
</tr>
<tr>
<td>Hand</td>
<td>86.62</td>
</tr>
<tr>
<td>Full-thickness</td>
<td>86.61</td>
</tr>
<tr>
<td>Heterograft</td>
<td>86.65</td>
</tr>
<tr>
<td>Homograft</td>
<td>86.66</td>
</tr>
<tr>
<td>Island flap</td>
<td>86.70</td>
</tr>
<tr>
<td>Mucous membrane</td>
<td>86.69</td>
</tr>
<tr>
<td>Eyelid</td>
<td>08.62</td>
</tr>
<tr>
<td>Nose --see Graft, nose pedicled (flap) (tube)</td>
<td>86.70</td>
</tr>
<tr>
<td>Advancement</td>
<td>86.72</td>
</tr>
<tr>
<td>Attachment to site (advanced)(double)</td>
<td></td>
</tr>
<tr>
<td>(rotating) (sliding)</td>
<td>86.74</td>
</tr>
<tr>
<td>Hand (cross finger) (pocket)</td>
<td>86.73</td>
</tr>
<tr>
<td>Lip</td>
<td>27.57</td>
</tr>
<tr>
<td>Mouth</td>
<td>27.57</td>
</tr>
<tr>
<td>Thumb</td>
<td>86.73</td>
</tr>
<tr>
<td>For</td>
<td></td>
</tr>
<tr>
<td>Pollicization</td>
<td>82.61</td>
</tr>
<tr>
<td>Reconstruction NEC</td>
<td>82.69</td>
</tr>
<tr>
<td>Breast</td>
<td>85.84</td>
</tr>
<tr>
<td>Deep inferior epigastric artery perforator (DIEP) flap</td>
<td>85.74</td>
</tr>
<tr>
<td>Gluteal artery perforator (GAP) flap</td>
<td>85.76</td>
</tr>
<tr>
<td>Latissimus dorsi myocutaneous flap</td>
<td>85.71</td>
</tr>
<tr>
<td>Superficial inferior epigastric artery (SIEA) flap</td>
<td>85.75</td>
</tr>
<tr>
<td>Transverse rectus abdominis musculocutaneous (TRAM) flap</td>
<td>85.73</td>
</tr>
<tr>
<td>Transverse rectus abdominis myocutaneous (TRAM) flap, pedicled</td>
<td>85.72</td>
</tr>
<tr>
<td>Defatting</td>
<td>86.75</td>
</tr>
</tbody>
</table>

### Graft, grafting - skin -pedicle --Cont.

#### Delayed
- 86.71

#### Design and raising
- 86.71

#### Elevation
- 86.71

#### Preparation of (cutting)
- 86.71

#### Revision
- 86.75

#### Sculpturing
- 86.71

#### Transection
- 86.71

#### Transfer
- 86.74

#### Trimming
- 86.71

#### Postauricular
- 18.79

#### Rotation flap
- 86.70

#### Specified site NEC
- 86.69

#### Full-thickness
- 86.63

#### Tarsal cartilage
- 08.69

#### Temporalis muscle to orbit
- 16.63

#### With exenteration of orbit
- 16.59

#### Tendon
- 83.81

#### For joint repair
- See Arthroplasty

#### Hand
- 82.79

#### Testicle
- 62.69

#### Thumb (for reconstruction) NEC
- 82.69

#### Tongue (mucosal) (skin)
- 25.59

#### Trachea
- 31.79

#### Tubular (tube) --see Graft, skin, pedicle

#### Tunnel --see Graft, skin, pedicle

#### Tymanum --see also Tymanoplasty
- 19.4

#### Ureter
- 56.89

#### Vagina
- Biological 70.94
- Synthetic 70.95

#### Vein (patch)
- 39.58

#### With
- Excision or resection of vessel
- See Phlebectomy, with graft replacement
- Synthetic patch (Dacron) (Teflon) 39.57
- Tissue patch (vein) (autogenous) (homograft) 39.56

#### Vermilion border (lip)
- 27.56

### Graft, conjunctiva
- 10.31

### Green operation (scapulopexy)
- 78.41

### Grice operation (subtalar arthrodesis)
- 81.13

### Grip, strength
- 93.04

### Gritti-Stokes operation
- (Knee disarticulation) 84.16

### Gross operation (herniorrhaphy)
- Laparoscopic 53.43

#### With graft or prosthesis
- 53.42

#### Other and open with graft or prosthesis
- 53.41

#### Other open
- 53.49

### Group therapy
- 94.44

### Guttering, bone --see also Excision, lesion, bone
- 77.60

### Guyon operation (Amputation of ankle)
- 84.13
<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hagner operation</td>
<td>(epididymotomy) 63.92</td>
</tr>
<tr>
<td>Halsted operation</td>
<td>--see Repair, hernia, inguinal</td>
</tr>
<tr>
<td>Hampton operation</td>
<td>(anastomosis small intestine to rectal stump) 45.92</td>
</tr>
<tr>
<td>Hanging hip operation</td>
<td>(muscle release) 83.19</td>
</tr>
<tr>
<td>Harell operation</td>
<td>(anastomosis small intestine to rectal stump) 45.92</td>
</tr>
<tr>
<td>Hampton operation</td>
<td>(anastomosis small intestine to rectal stump) 45.92</td>
</tr>
<tr>
<td>Harvesting</td>
<td>bone marrow 41.91</td>
</tr>
<tr>
<td>Hauser operation</td>
<td>stem cells 99.79</td>
</tr>
<tr>
<td>Heaney operation</td>
<td>(vaginal hysterectomy) 68.59</td>
</tr>
<tr>
<td>Hearing test</td>
<td>95.47</td>
</tr>
<tr>
<td>HeartMate® implantable heart assist system</td>
<td>37.66</td>
</tr>
<tr>
<td>Hegar operation</td>
<td>(perineorrhaphy) 71.79</td>
</tr>
<tr>
<td>Heine operation</td>
<td>(cycloidalysis) 12.55</td>
</tr>
<tr>
<td>Heller operation</td>
<td>(esophagomyotomy) 42.7</td>
</tr>
<tr>
<td>Hellstom operation</td>
<td>(transplantation of aberrant renal vessel) 39.55</td>
</tr>
<tr>
<td>Hemicolectomy</td>
<td>left laparoscopic 17.35</td>
</tr>
<tr>
<td></td>
<td>open and other 45.75</td>
</tr>
<tr>
<td></td>
<td>right (extended) laparoscopic 17.33</td>
</tr>
<tr>
<td></td>
<td>open and other 45.73</td>
</tr>
<tr>
<td>Hemicystectomy</td>
<td>57.6</td>
</tr>
<tr>
<td>Hemigastrectomy</td>
<td>--see Gastrectomy</td>
</tr>
<tr>
<td>Hemiglossectomy</td>
<td>25.2</td>
</tr>
<tr>
<td>Hemilaminectomy</td>
<td>(decompression) (exploration) 03.09</td>
</tr>
<tr>
<td>Hemilaryngectomy</td>
<td>(anterior) (lateral) (vertical) 30.1</td>
</tr>
<tr>
<td>Hemimandibulectomy</td>
<td>76.31</td>
</tr>
<tr>
<td>Hemimastectomy</td>
<td>(radical) 85.23</td>
</tr>
<tr>
<td>Hemimaxillecetomy</td>
<td>(with bone graft) (with prosthesis) 76.39</td>
</tr>
<tr>
<td>Heminephrectomy</td>
<td>55.4</td>
</tr>
<tr>
<td>Hemipelvectomty</td>
<td>84.19</td>
</tr>
<tr>
<td>Hemispherectomy</td>
<td>(cerebral) 01.52</td>
</tr>
<tr>
<td>Hemithyroidectomy</td>
<td>(with removal of isthmus) (with removal of portion of remaining lobe) 06.2</td>
</tr>
<tr>
<td>Hemodialfiltration</td>
<td>(extracorporeal) 39.95</td>
</tr>
<tr>
<td>Hemodialysis</td>
<td>(extracorporeal) 39.95</td>
</tr>
<tr>
<td>Hemodilution</td>
<td>99.03</td>
</tr>
<tr>
<td>Hemofiltration</td>
<td>(extracorporeal) 39.95</td>
</tr>
<tr>
<td>Hemorrhage control</td>
<td>--see Control, hemorrhage</td>
</tr>
<tr>
<td>Hemorrhoidectomy</td>
<td>49.46</td>
</tr>
<tr>
<td>Hemostasis</td>
<td>--see Control, hemorrhage</td>
</tr>
<tr>
<td>Henley operation</td>
<td>(jejunal transposition) 43.81</td>
</tr>
<tr>
<td>Hepatectomy</td>
<td>(complete) (total) 50.4</td>
</tr>
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<td>Hepatic assistance, extracorporeal</td>
<td>partial or subtotal 50.22</td>
</tr>
<tr>
<td>Hepaticchoanaligiojenunostomy</td>
<td>51.37</td>
</tr>
<tr>
<td>Hepaticcystoduodenostomy</td>
<td>51.37</td>
</tr>
<tr>
<td>Hepaticodochotomy</td>
<td>51.59</td>
</tr>
<tr>
<td>Hepaticoduodenostomy</td>
<td>51.37</td>
</tr>
<tr>
<td>Hepatojejunostomy</td>
<td>51.37</td>
</tr>
<tr>
<td>Hepaticolithotomey</td>
<td>51.49</td>
</tr>
<tr>
<td>Hepaticolithotomey</td>
<td>endoscopic 51.88</td>
</tr>
<tr>
<td>Hepaticostomy</td>
<td>51.49</td>
</tr>
<tr>
<td>Hepaticostomy</td>
<td>endoscopic 51.88</td>
</tr>
<tr>
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<td>51.37</td>
</tr>
<tr>
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<td>51.43</td>
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<td>endoscopic 51.87</td>
</tr>
<tr>
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<td>50.69</td>
</tr>
<tr>
<td>Hepatogastrostomy</td>
<td>50.69</td>
</tr>
<tr>
<td>Hepatojejunostomy</td>
<td>50.69</td>
</tr>
<tr>
<td>Hepatoilithotomey</td>
<td>hepatic duct 51.49</td>
</tr>
<tr>
<td></td>
<td>liver 50.0</td>
</tr>
<tr>
<td>Hepatopexy</td>
<td>50.69</td>
</tr>
<tr>
<td>Hepatotomry</td>
<td>50.61</td>
</tr>
<tr>
<td>Hepatoxytomry</td>
<td>(external) (internal) 50.69</td>
</tr>
<tr>
<td>Hepatotomy</td>
<td>(with packing) 50.0</td>
</tr>
<tr>
<td>Hernioplasty</td>
<td>--see Repair, hernia</td>
</tr>
<tr>
<td>Herniorrhaphy</td>
<td>--see Repair, hernia</td>
</tr>
<tr>
<td>Herniotomy</td>
<td>--see Repair, hernia</td>
</tr>
<tr>
<td>Heterongraft</td>
<td>--see Graft</td>
</tr>
<tr>
<td>Heterotransplant, heterotransplantation</td>
<td>--see Transplant</td>
</tr>
<tr>
<td>Hey operation</td>
<td>(amputation of foot) 84.12</td>
</tr>
<tr>
<td>Hey-Grooves operation</td>
<td>(reconstruction of anterior cruciate ligament) 81.45</td>
</tr>
<tr>
<td>Heyman operation</td>
<td>(soft tissue release for clubfoot) 83.84</td>
</tr>
</tbody>
</table>
Heyman-Herndon (Strong) operation (correction of metatarsus varus) 80.48

Hibb's operation (lumbar spinal fusion)
--see Fusion, lumbar

Higgins operation --see Repair, hernia, femoral

High forceps delivery 72.39
with episiotomy 72.31

Hill-Allison operation (hiatal hernia repair, transpleural approach) 53.80

Hinging, mitral valve 35.12

His bundle recording 37.29

Hitchcock operation (anchoring tendon of biceps) 83.88

Hoffmeister operation (gastrectomy) 43.7

Hoke operation
midtarsal fusion 81.14
triple arthrodesis 81.12

Holth operation
iridencleisis 12.63
sclerectomy 12.65

Homan operation (correction of lymphedema) 40.9

Homograft --see Graft

Homotransplant, homotransplantation --see Transplant

Hosiery, elastic 93.59

Hutch operation (ureteroneocystostomy) 56.74

Hybinette-Eden operation (glenoid bone block) 78.01

Hydrocelectomy
- canal of Nuck (female) 69.19
- male 63.1
- round ligament 69.19
- spermatic cord 63.1
- tunica vaginalis 61.2

Hydrotherapy 93.33
- assisted exercise in pool 93.31
- whirlpool 93.32

Hymenectomy 70.31

Hymenoplasty 70.76

Hymenorrhaphy 70.11

Hyperalimentation (parenteral) 99.15

Hyperbaric oxygenation 93.95

wound 93.59

Hyperextension, joint 93.25

Hyperthermia NEC 93.35
- for cancer treatment (interstitial) (local)
- (radiofrequency) (regional)
- (ultrasound) (whole-body) 99.85

Hyponodrama, psychiatric 94.32

Hypnosis (psychotherapeutic) 94.32
- for anesthesia --omit code

Hypnotherapy 94.32

Hypophysectomy - partial --Cont.
- transsphenoidal approach 07.62
- specified approach NEC 07.68
- transfrontal approach (complete) (total) 07.64
- partial 07.61
- transsphenoidal approach (complete) (total) 07.65
- partial 07.62

Hypothermia (central) (local) 99.81
- gastric (cooling) 96.31
- freezing 96.32
- systemic (in open heart surgery) 39.62

Hypotympanotomy 20.23

Hysterectomy 68.9
- abdominal 68.49
- laparoscopic (total) [TLH] 68.41
- partial or subtotal (supracervical) (supravaginal) 68.39
- radical (modified) (Wertheim's) 68.69
- laparoscopic (total) [TLRH] 68.61
- supracervical 68.39
- classic infrrafascial SEMM hysterectomy [CISH] 68.31
- laparoscopically assisted [LASH] 68.31
- vaginal (complete) (partial) (subtotal) (total) 68.59
- laparoscopically assisted [LAVH] 68.51
- radical (Schauta) 68.79
- laparoscopic [LRVH] 68.71

Hysterocolpectomy - (radical) (vaginal) 68.79
- abdominal 68.69
- laparoscopic 68.61
- laparoscopic 68.71

Hysterogram NEC 87.85
- percutaneous 87.84

Hysterolysis 54.59
- laparoscopic 54.51

Hysteromyectomy 68.29

Hysteroscopy 68.12
- with ablation
- endometrial 68.23
- biopsy 68.16

Hysterotomy (with removal of foreign body)
- (with removal of hydatidiform mole) 68.0
- for intrauterine transfusion 75.2
- obstetrical 74.99
- for termination of pregnancy 74.91

Hysterosalpingectomy 66.31

Hysterosalpingography gas (contrast) 87.82
- opaque dye (contrast) 87.83

Hysterosalpingostomy 66.74

Hysteroscopy 68.12
with ablation
endometrial 68.23
biopsy 68.16

Hysterotomy (with removal of foreign body)
- (with removal of hydatidiform mole) 68.0
- for intrauterine transfusion 75.2
- obstetrical 74.99
- for termination of pregnancy 74.91

Hysterotrachelectomy 67.4

Hysterotracheloplasty 69.49

Hysterotrachelorrhaphy 69.41

Hysterotrachelotomy 69.95
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IAEMT (intraoperative anesthetic effect monitoring and titration)</td>
<td>00.94 [89.14]</td>
</tr>
<tr>
<td>ICCE (intracapsular cataract extraction)</td>
<td>13.19</td>
</tr>
<tr>
<td>ileal bladder closed</td>
<td>57.87 [45.51]</td>
</tr>
<tr>
<td>open (ileoureterostomy)</td>
<td>56.51</td>
</tr>
<tr>
<td>conduit (ileoureterostomy)</td>
<td>56.51</td>
</tr>
<tr>
<td>ileocecostomy</td>
<td>45.93</td>
</tr>
<tr>
<td>ileocolostomy</td>
<td>45.93</td>
</tr>
<tr>
<td>ileocystoplasty (isolated segment anastomosis) (open loop)</td>
<td>57.87 [45.51]</td>
</tr>
<tr>
<td>ileoduodenotomy</td>
<td>45.01</td>
</tr>
<tr>
<td>ileoectomy (partial)</td>
<td>45.62</td>
</tr>
<tr>
<td>ileoileostomy</td>
<td>45.91</td>
</tr>
<tr>
<td>ileoentrectomy</td>
<td>46.99</td>
</tr>
<tr>
<td>ileoesophagostomy</td>
<td>42.54</td>
</tr>
<tr>
<td>ilesigmoidostomy</td>
<td>45.93</td>
</tr>
<tr>
<td>ileostomy continent (permanent)</td>
<td>46.22</td>
</tr>
<tr>
<td>delayed opening</td>
<td>46.24</td>
</tr>
<tr>
<td>Hendon (temporary)</td>
<td>46.21</td>
</tr>
<tr>
<td>loop</td>
<td>46.01</td>
</tr>
<tr>
<td>Paul (temporary)</td>
<td>46.21</td>
</tr>
<tr>
<td>permanent</td>
<td>46.23</td>
</tr>
<tr>
<td>continent</td>
<td>46.22</td>
</tr>
<tr>
<td>repair</td>
<td>46.41</td>
</tr>
<tr>
<td>revision</td>
<td>46.41</td>
</tr>
<tr>
<td>tangential (temporary)</td>
<td>46.21</td>
</tr>
<tr>
<td>ileotransversostomy</td>
<td>45.93</td>
</tr>
<tr>
<td>ileoureterostomy (Bricker's) (ileal bladder)</td>
<td>56.51</td>
</tr>
<tr>
<td>Imaging (diagnostic)</td>
<td>88.90</td>
</tr>
<tr>
<td>--see Imaging, optical coherence tomography (OCT)</td>
<td>88.90</td>
</tr>
<tr>
<td>OCT and Tomography, optical coherence diagnostic, not elsewhere classified</td>
<td>88.90</td>
</tr>
<tr>
<td>endovascular ultrasound</td>
<td>00.29</td>
</tr>
<tr>
<td>intravascular ultrasound</td>
<td>00.29</td>
</tr>
<tr>
<td>intraoperative</td>
<td>00.29</td>
</tr>
<tr>
<td>iMRI</td>
<td>00.29</td>
</tr>
<tr>
<td>intravascular ultrasound (IVUS)</td>
<td>00.29</td>
</tr>
<tr>
<td>aorta</td>
<td>00.22</td>
</tr>
<tr>
<td>aortic arch</td>
<td>00.22</td>
</tr>
<tr>
<td>carotid vessel</td>
<td>00.21</td>
</tr>
<tr>
<td>cerebral vessel, extracranial</td>
<td>00.21</td>
</tr>
<tr>
<td>coronary vessel</td>
<td>00.24</td>
</tr>
<tr>
<td>intrathoracic vessel</td>
<td>00.22</td>
</tr>
<tr>
<td>other specified vessel</td>
<td>00.28</td>
</tr>
<tr>
<td>peripheral vessel</td>
<td>00.23</td>
</tr>
<tr>
<td>renal vessel</td>
<td>00.25</td>
</tr>
<tr>
<td>vena cava (inferior) (superior)</td>
<td>00.22</td>
</tr>
<tr>
<td>magnetic resonance (nuclear) (proton) NEC</td>
<td>88.97</td>
</tr>
<tr>
<td>abdomen</td>
<td>88.97</td>
</tr>
<tr>
<td>bladder (urinary)</td>
<td>88.95</td>
</tr>
<tr>
<td>bone marrow blood supply</td>
<td>88.94</td>
</tr>
<tr>
<td>brain (brain stem)</td>
<td>88.91</td>
</tr>
<tr>
<td>computer assisted surgery (CAS) with MR/MRA</td>
<td>00.32</td>
</tr>
<tr>
<td>chest (hilar) (mediastinal)</td>
<td>88.92</td>
</tr>
<tr>
<td>extremity (upper) (lower)</td>
<td>88.94</td>
</tr>
<tr>
<td>eye orbit</td>
<td>88.97</td>
</tr>
<tr>
<td>face</td>
<td>88.97</td>
</tr>
<tr>
<td>head NEC</td>
<td>88.97</td>
</tr>
<tr>
<td>musculoskeletal</td>
<td>88.94</td>
</tr>
<tr>
<td>myocardium</td>
<td>88.92</td>
</tr>
<tr>
<td>neck</td>
<td>88.97</td>
</tr>
<tr>
<td>orbit of eye</td>
<td>88.97</td>
</tr>
<tr>
<td>prostate</td>
<td>88.95</td>
</tr>
<tr>
<td>specified site NEC</td>
<td>88.97</td>
</tr>
<tr>
<td>spinal canal (cord) (spine)</td>
<td>88.93</td>
</tr>
<tr>
<td>VH™ IVUS</td>
<td>88.93</td>
</tr>
<tr>
<td>intravascular ultrasound (IVUS), by site virtual histology intravascular ultrasound (IVUS), by site with fracture-reduction</td>
<td>88.93</td>
</tr>
<tr>
<td>fracture</td>
<td>93.59</td>
</tr>
<tr>
<td>bandage</td>
<td>93.59</td>
</tr>
<tr>
<td>bone</td>
<td>93.59</td>
</tr>
</tbody>
</table>
Immobilization (by)
cast NEC 93.53
  with reduction of fracture or dislocation
    --see Reduction, fracture, and
    Reduction, dislocation
device NEC 93.59
pressure dressing 93.56
splint (plaster) (tray) 93.54
  with reduction of fracture or dislocation
    --see Reduction, fracture, and
    Reduction, dislocation
stereotactic head frame 93.59
strapping (non-traction) 93.59

Immunization --see also Vaccination
cancer allergy 99.12
autoimmune disease 99.13
BCG 99.33
brucellosis 99.55
cholera 99.31
diphtheria 99.36
DPT 99.39
epidemic parotitis 99.46
German measles 99.47
Hemophilus influenzae 99.52
influenza 99.52
measles 99.45
meningococcus 99.55
mumps 99.46
pertussis 99.37
plague 99.34
poliomyelitis 99.41
rabies 99.44
rubella 99.47
salmonella 99.55
smallpox 99.42
staphylococcus 99.55
TAB 99.32
tetanus 99.38
triple vaccine 99.48
tuberculosis 99.33
tularemia 99.35
typhoid- paratyphoid 99.32
typhus 99.55
viral NEC 99.55
whooping cough 99.37
yellow fever 99.43

Immunoadsorption, extracorporeal (ECI) 99.76

Immunotherapy, antineoplastic 99.28
C-Parvum 99.28
Interferon 99.28
Interleukin-2 (low-dose) 99.28
  high-dose 00.15
Levamisole 99.28
Proleukin (low-dose) 99.28
  high-dose 00.15
Thymosin 99.28

Impella® percutaneous external heart assist device 37.68

Implant, implantation
abdominal artery to coronary artery 36.17
artery
  aortic branches to heart muscle 36.2
  mammary to ventricular wall (Vineberg) 36.2
baffle, atrial or interatrial 35.91
biliary fistulous tract into stomach or intestine 51.39
bipolar endoprosthesis (femoral head) 81.52
bladder sphincter, artificial (inflatable) 58.93
blood vessels to myocardium 36.2
bone growth stimulator (invasive)
  (percutaneous) (semi-invasive)
    --see category 78.9
bone morphogenetic protein (Infuse "")
  (OP-1"") (recombinant) (rhBMP) 84.52
bone void filler 84.55
  that with percutaneous vertebral augmentation 81.66
  that with percutaneous vertebroplasty 81.65
breast (for augmentation) (bilateral) 85.54
  unilateral 85.53
cardiac contractility modulation (CCM)
  rechargeable pulse generator only 17.52
  total system 17.51
CCM (cardiac contractility modulation)
  rechargeable pulse generator only 17.52
  total system 17.51
cardiac resynchronization device
  defibrillator (biventricular) (BIV ICD)
    (BIV pacemaker with defibrillator)
    (BIV pacing with defibrillator)
    (CRT-D) (device and one or more
      leads) (total system) 00.51
    left ventricular coronary venous lead
      only 00.52
    pulse generator only 00.54
    pacemaker (BIV) (biventricular) (CRT-P)
      (device and one or more leads)
      (total system) 00.50
    left ventricular coronary venous lead
      only 00.52
    pulse generator only 00.53
cardiac support device (CSD) 37.41
cardiomyostimulation system 37.67
cardioverter/defibrillator (automatic) 37.94
  leads only (patch electrode)
    (sensing) (pacing) 37.95
  pulse generator only 37.96
  total system 37.94
chest wall (mesh) (silastic) 34.79
chin (polyethylene) (silastic) 76.68
Implant, implantation ---Cont.

cochlear (electrode) 20.96
prosthetic device (electrode and receiver) 20.96
channel (single) 20.97
multiple 20.98
electrode only 20.99
internal coil only 20.99
coil(s), endovascular 39.79
head or neck vessels
bare metal 39.75
bioactive 39.76
CorCap™ 37.41
cornea 11.73
CRT-D (biventricular defibrillator) (BiV ICD) (BiV pacing with defibrillator) (cardiac resynchronization defibrillator) (device and one or more leads) 00.51
left ventricular coronary venous lead only 00.52
pulse generator only 00.54
CRT-P (biventricular pacemaker) (BiV pacemaker) (cardiac resynchronization pacemaker) (device and one or more leads) 00.50
left ventricular coronary venous lead only 00.52
pulse generator only 00.53
custodis eye 14.41
dental (endosseous) (prosthetic) 23.6
device
adjustable gastric band and port 44.95
bronchial device NOS 33.79
bronchial substance NOS 33.79
bronchial valve
multiple lobes 33.73
single lobe 33.71
cardiac support device (CSD) 37.41
CorCap™ 37.41
epicardial support device 37.41
Lap-Band™ 44.95
left atrial appendage 37.90
left atrial filter 37.90
left atrial occluder 37.90
prosthetic cardiac support device 37.41
subcutaneous for intracardiac or great vessel hemodynamic monitoring 00.57
vascular access 86.07
ventricular support device 37.41
diaphragmatic pacemaker 34.85
Dynesys® 84.82
electrode(s)
brain 02.93
depth 02.93
foramen ovale 02.93
sphenoidal 02.96

Implant, implantation -device ---Cont.
cardiac (initial) (transvenous) 37.70
atrium (initial) 37.73
replacement 37.76
atrium and ventricle (initial) 37.72
replacement 37.76
epicardium (sternotomy or thoracotomy approach) 37.74
left ventricular coronary venous system 00.52
temporary transvenous pacemaker system 37.78
during and immediately following cardiac surgery 39.64
ventricle (initial) 37.71
replacement 37.76
carotid sinus 39.8
depth 02.93
foramen ovale 02.93
gastric 04.92
heart --see also Implant, electrode(s), cardiac 37.70
intracranial 02.93
osteogenic (invasive) for bone growth stimulation --see category 78.9
peripheral nerve 04.92
sacral nerve 04.92
sphenoidal 02.96
spine 03.93
electroencephalographic receiver
brain 02.93
intracranial 02.93
electronic stimulator
anus (subcutaneous) 49.92
bladder 57.96
bone growth (invasive) (percutaneous) (semi-invasive) 78.9
brain --see Implant, neurostimulator, brain
carotid sinus 39.8
cochlear 20.96
channel (single) 20.97
multiple 20.98
gastric 04.92
intracranial --see Implant, neurostimulator, intracranial
peripheral nerve --see Implant, neurostimulator, peripheral nerve
phrenic nerve 34.85
skeletal muscle 83.92
spine --see Implant, neurostimulator, spine
ureter 56.92
electrostimulator --see Implant, electronic stimulator, by site
endoprosthesis
bile duct 51.87
femoral head (bipolar) 81.52
pancreatic duct 52.93
endosseous (dental) 23.6
epidural pegs 02.93
**Implant, implantation** -- Cont.
epikeratoprosthesis 11.73
estradiol (pellet) 99.23
eye (Iowa type) 16.61
integrated 16.41
facial bone, synthetic (alloplastic) 76.92
fallopian tube (Mulligan hood) (silastic tube) (stent) 66.93
into uterus 66.74
gastroepiplic artery to coronary artery 36.17
hearing device, electromagnetic 20.95
heart artificial 37.52
total internal biventricular replacement system 37.52
AbioCor® 37.52
CardioWest™ (TAH-t) 37.52
assist system
CentriMag® -- see Insertion, circulatory support device
external heart assist device, percutaneous -- see Insertion, circulatory support device
external heart assist system, open approach 37.65
extrinsic 37.68
HeartMate® implantable heart assist system 37.66
HeartMate® II left ventricular assist system [LVAS] 37.66
Impella® percutaneous external circulatory assist device -- see Insertion, circulatory support device
implantable 37.66
non-implantable -- see Insertion, circulatory support device
percutaneous external circulatory assist device -- see Insertion, circulatory support device
pulsation balloon 37.61
pVAD (percutaneous VAD) -- see Insertion, circulatory support device
TandemHeart® -- see Insertion, circulatory support device
temporary non-implantable circulatory assist device -- see Insertion, circulatory support device
that for destination therapy (DT) 37.66
auxiliary ventricle 37.62
heart, assist system
CorCap™ 37.41
epicardial support device 37.41

**Implant, implantation** - heart -- - Cont.
pacemaker -- see also Implant, pacemaker, cardiac 37.80
prosthetic cardiac support device 37.41
total internal biventricular replacement system 37.52
valve(s)
prosthesis or synthetic device (partial) (synthetic) (total) 35.20
aortic 35.22
mitral 35.24
pulmonary 35.26
tricuspid 35.28
tissue graft 35.20
aortic 35.21
mitral 35.23
pulmonary 35.25
tricuspid 35.27
ventricular support device 37.41
inert material
breast (for augmentation) (bilateral) 85.54
unilateral 85.53
larynx 31.0
nose 21.85
orbit (eye socket) 16.69
reinsertion 16.62
scleral shell (cup) (with enucleation of eyeball) 16.31
reinsertion 16.62
Tenon's capsule (with enucleation of eyeball) 16.42
reinsertion 16.62
urethra 59.79
vocal cord(s) 31.0
infusion pump 86.06
interbody spinal fusion device 84.51
intracardiac or great vessel hemodynamic monitor, subcutaneous 00.57
joint (prosthesis) (silastic) (Swanson type) NEC 81.96
ankle (total) 81.56
revision 81.59
carpocarpal, carpometacarpal 81.74
elevator (total) 81.84
revision 81.97
extremity (bioelectric) (cineplastic) (kineplastic) 84.40
lower 84.48
revision 81.59
upper 84.44
revision 81.97
femoral (bipolar endoprosthesis) 81.52
revision NOS 81.53
acetabular and femoral components (total) 00.70
acetabular component only 00.71
acetabular liner and/or femoral head only 00.73
Implant - joint -femoral- revision
--- Cont.
  femoral component only 00.72
  femoral head only and/or
  acetabular liner 00.73
  total (acetabular and femoral
  components) 00.70
finger 81.71
hand (metacarpophalangeal)
  (interphalangeal) 81.71
revision 81.97
hip (partial) 81.52
revision NOS 81.53
  acetabular and femoral
  components (total) 00.70
  acetabular component only 00.71
  acetabular liner and/or femoral
  head only 00.73
  femoral component only 00.72
  femoral head only and/or
  acetabular liner 00.73
  partial
    acetabular component only
    00.71
    acetabular liner and/or femoral
    head only 00.73
  femoral component only 00.72
  femoral head only and/or
  acetabular liner 00.73
  total (acetabular and femoral
  components) 00.70
  total 81.51
  revision (acetabular and femoral
  components) 00.70
interphalangeal 81.71
revision 81.97
knee (partial) (total) 81.54
revision NOS 81.55
  femoral component 00.82
  partial
    femoral component 00.82
    patellar component 00.83
    tibial component 00.81
    tibial insert 00.84
    patellar component 00.83
    tibial component 00.81
    tibial insert 00.84
    total (all components) 00.80
metacarpophalangeal 81.71
revision 81.97
shoulder (partial) 81.81
revision 81.97
  total replacement 81.80
toe 81.57
  for hallux valgus repair 77.59
  revision 81.59
  wrist (partial) 81.74
  revision 81.97
  total replacement 81.73

Implant, implantation - - - Cont.
kidney, mechanical 55.97
Lap-Band™ 44.95
larynx 31.0
leads (cardiac) --see Implant, electrode(s),
cardiac
limb lengthening device, internal (NOS)
  84.54
  with kinetic distraction 84.53
mammary artery
  in ventricle (Vineberg) 36.2
  to coronary artery (single vessel) 36.15
  double vessel 36.16
M-Brace™ 84.82
Mulligan hood, fallopian tube 66.93
nerve (peripheral) 04.79
neuropacemaker --see Implant,
  neurostimulator, by site
neurostimulator
  electrodes
    brain 02.93
    carotid sinus 39.8
    gastric 04.92
    intracranial 02.93
    peripheral nerve 04.92
    sacral nerve 04.92
    spine 03.93
    pulse generator 86.96
      dual array 86.95
      rechargeable 86.98
      single array 86.94
      rechargeable 86.97
    nose 21.85
    Ommaya reservoir 02.2
    orbit 16.69
      reinsertion 16.62
    outflow tract prosthesis (heart) (gusset type)
      in
        pulmonary valvuloplasty 35.26
        total repair of tetralogy of Fallot 35.81
    ovary into uterine cavity 65.72
    laparoscopic 65.75
pacemaker
  brain - see Implant, neurostimulator, brain
  cardiac (device) (initial) (permanent)
    (replacement) 37.80
    dual-chamber device (initial) 37.83
    replacement 37.87
    resynchronization device (biventricular
    pacemaker) (BIV pacemaker) (CRT-P)
    device only (initial)replacement 00.53
    total system (device and one or more
    leads) 00.50
    transvenous lead into left ventricular
    coronary venous system 00.52
    single-chamber device (initial) 37.81
    rate responsive 37.82
    replacement 37.85
    rate responsive 37.86
<table>
<thead>
<tr>
<th><strong>Implant</strong> – pacemaker</th>
<th><strong>Implant</strong> – prosthesis - joint - - - Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>temporary transvenous pacemaker system</td>
<td>shoulder (partial) 81.81</td>
</tr>
<tr>
<td>during and immediately following cardiac surgery</td>
<td>total 81.80</td>
</tr>
<tr>
<td>carotid sinus 39.8</td>
<td>toe 81.57</td>
</tr>
<tr>
<td>diaphragm 34.85</td>
<td>for hallux valgus repair 77.59</td>
</tr>
<tr>
<td>gastric 04.92</td>
<td>wrist (partial) 81.74</td>
</tr>
<tr>
<td>intracranial --see Implant, neurostimulator, intracranial neural- see Implant, neurostimulator, by site</td>
<td>total 81.73</td>
</tr>
<tr>
<td>peripheral nerve - see Implant, neurostimulator, peripheral nerve spine - see Implant, neurostimulator, spine</td>
<td>leg (bioelectric) (cineplastic) (kineplastic) 84.48</td>
</tr>
<tr>
<td>pancreas (duct) 52.96</td>
<td>lens 13.91</td>
</tr>
<tr>
<td>penis, prosthesis (internal)</td>
<td>outflow tract (heart) (gusset type) in</td>
</tr>
<tr>
<td>inflatable 64.97</td>
<td>pulmonary valvuloplasty 35.26</td>
</tr>
<tr>
<td>non-inflatable 64.95</td>
<td>total repair of tetralogy of Fallot 35.81</td>
</tr>
<tr>
<td>port, vascular access device 86.07</td>
<td>penis (internal) (non-inflatable) 64.95</td>
</tr>
<tr>
<td>premaxilla 76.68</td>
<td>inflatable (internal) 64.97</td>
</tr>
<tr>
<td>progesterone (subdermal) 99.23</td>
<td>skin (dermal regenerative)(matrix) 86.95</td>
</tr>
<tr>
<td>prosthesis, prosthetic device</td>
<td>testicular (bilateral) (unilateral) 62.7</td>
</tr>
<tr>
<td>acetabulum (Aufranc-Turner) 81.52</td>
<td>pulsation balloon (phase-shift) 37.61</td>
</tr>
<tr>
<td>ankle (total) 81.56</td>
<td>pump, infusion 86.06</td>
</tr>
<tr>
<td>arm (bioelectric) (cineplastic) (kineplastic) 84.44</td>
<td>radial artery 36.19</td>
</tr>
<tr>
<td>breast (Cronin) (Dow-Corning) (Perras-Pappillon) (bilateral) 85.54</td>
<td>radioactive isotope 92.27</td>
</tr>
<tr>
<td>unilaterial 85.53</td>
<td>radium (radon) 92.27</td>
</tr>
<tr>
<td>cochlear 20.96</td>
<td>retinal attachment 14.41</td>
</tr>
<tr>
<td>channel (single) 20.97</td>
<td>with buckling 14.41</td>
</tr>
<tr>
<td>multiple 20.98</td>
<td>Rheos™ carotid sinus baroreflex activation device 39.8</td>
</tr>
<tr>
<td>extremity (bioelectric) (cineplastic) (kineplastic) 84.40</td>
<td>silicon</td>
</tr>
<tr>
<td>lower 84.48</td>
<td>breast (bilateral) 85.54</td>
</tr>
<tr>
<td>upper 84.44</td>
<td>unilaterial 85.53</td>
</tr>
<tr>
<td>fallopian tube (Mulligan hood)(stent) 66.93</td>
<td>skin (for filling of defect) 86.02</td>
</tr>
<tr>
<td>femoral head (Austin- Moore) (bipolar) (Eicher) (Thompson) 81.52</td>
<td>for augmentation NEC 86.89</td>
</tr>
<tr>
<td>joint (Swanson type) NEC 81.96</td>
<td>spine NEC 84.59</td>
</tr>
<tr>
<td>ankle (total) 81.56</td>
<td>facet replacement device(s) 84.84</td>
</tr>
<tr>
<td>carpocarpal, carpometacarpal 81.74</td>
<td>interspinous process decompression device 84.80</td>
</tr>
<tr>
<td>elbow (total) 81.84</td>
<td>pedicle-based dynamic stabilization device(s) 84.82</td>
</tr>
<tr>
<td>finger 81.71</td>
<td>posterior motion preservation device(s) --see category 84.8</td>
</tr>
<tr>
<td>hand (metacarpophalangeal) (interphalangeal) 81.71</td>
<td>stimouceiver - see Implant, neurostimulator, by site</td>
</tr>
<tr>
<td>hip (partial) 81.52</td>
<td>stimulator</td>
</tr>
<tr>
<td>total 81.51</td>
<td>carotid sinus 39.8</td>
</tr>
<tr>
<td>interphalangeal 81.71</td>
<td>sudural</td>
</tr>
<tr>
<td>knee (partial) (total) 81.54</td>
<td>grids 02.93</td>
</tr>
<tr>
<td>revision 81.55</td>
<td>strips 02.93</td>
</tr>
<tr>
<td>metacarpophalangeal 81.71</td>
<td>Swanson prosthesis (joint) (silastic) NEC 81.96</td>
</tr>
<tr>
<td></td>
<td>carpocarpal, carpometacarpal 81.74</td>
</tr>
<tr>
<td></td>
<td>finger 81.71</td>
</tr>
<tr>
<td></td>
<td>hand (metacarpophalangeal) (interphalangeal) 81.71</td>
</tr>
<tr>
<td></td>
<td>interphalangeal 81.71</td>
</tr>
<tr>
<td></td>
<td>knee (partial) (total) 81.54</td>
</tr>
<tr>
<td></td>
<td>revision 81.55</td>
</tr>
<tr>
<td></td>
<td>metacarpophalangeal 81.71</td>
</tr>
</tbody>
</table>
Implant - Swanson prosthesis ---Cont.
toe 81.57
for hallux valgus repair 77.59
wrist (partial) 81.74
total 81.73
systemic arteries into myocardium (Vineberg type operation) 36.2
Tandem™ heart 37.68
telescope (IMT) (miniature) 13.91
testicular prosthesis (bilateral) (unilateral) 62.7
tissue expander (skin) NEC 86.93
breast 85.95
tissue mandril (for vascular graft) 39.99
with blood vessel repair 39.56
vascular bypass or shunt --see Bypass vascular
tooth (bud) (germ) 23.5
prosthetic 23.6
umbrella, vena cava 38.7
ureters into bladder 56.74
intestine 56.71
external diversion 56.51
skin 56.61
urethra
for repair of urinary stress incontinence collagen 59.72
fat 59.72
polytef 59.72
urethral sphincter, artificial (inflatable) 58.93
urinary sphincter, artificial (inflatable) 58.93
vascular access device 86.07
vitreous (silicone) 14.75
for retinal reattachment 14.41
with buckling 14.41
vocal cord(s) (paraglottic) 31.98
X Stop™ 84.80
Implosion (psychologic desensitization) 94.33
Incision (and drainage) - abscess ---Cont.
gluteal 86.04
groin region (abdominal wall) (inguinal) 54.0
skin 86.04
subcutaneous tissue 86.04
hair follicle 86.04
ischiorectal 49.01
lip 27.0
nailbed or nailfold 86.04
neck 86.04
omentum 54.19
paronychia 86.04
perianal 49.01
perigastric 54.19
perineum (female) 71.09
male 86.04
perisplenic 54.19
peritoneal NEC 54.19
pelvic (female) 70.12
popliteal space 86.04
retroperitoneal 54.0
sclera 12.89
skin 86.04
subcutaneous tissue 86.04
subdiaphragmatic 54.19
subhepatic 54.19
submaxillary 86.04
subphrenic 54.19
supraclavicular fossa 86.04
vas deferens 63.6
adrenal gland 07.41
alveolus, alveolar bone 24.0
anterocubital fossa 86.09
anus NEC 49.93
fistula 49.11
septum 49.91
appendix 47.2
artery 38.00
abdominal 38.06
aorta (arch) (ascending) (descending) 38.04
head and neck NEC 38.02
intracranial NEC 38.01
lower limb 38.08
thoracic NEC 38.05
upper limb 38.03
atrium (heart) 37.11
auditory canal or meatus, external 18.02
auricle 18.09
axilla 86.09
Bartholin’s gland or cyst 71.22
bile duct (with T or Y tube insertion) NEC 51.59
common (exploratory) 51.51
for relief of obstruction NEC 51.42
removal of calculus 51.41
for exploration 51.59
relief of obstruction 51.49
### Incision (and drainage) ---Cont.

<table>
<thead>
<tr>
<th>Site</th>
<th>Code</th>
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<tbody>
<tr>
<td>bladder</td>
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<td>neck (transurethral)</td>
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<td>percutaneous suprapubic (closed)</td>
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<td>suprapubic NEC</td>
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<tr>
<td>blood vessel --see also Angiotomy</td>
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<td>bone</td>
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<td>alveolus, alveolar</td>
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<td>carpals, metacarpals</td>
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<td>clavicle</td>
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<td>facial</td>
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<td>femur</td>
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<td>fibula</td>
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<td>humerus</td>
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<td>pelvis</td>
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<td>phalanges (foot) (hand)</td>
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<tr>
<td>radius</td>
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<td>scapula</td>
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<td>skull</td>
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<tr>
<td>specified site NEC</td>
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<tr>
<td>tarsals, metatarsals</td>
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<tr>
<td>thorax (ribs) (sternum)</td>
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<td>tibia</td>
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<td>cortical adhesions</td>
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<td>breast (skin)</td>
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<td>with removal of tissue expander</td>
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<td>bronchus</td>
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<td>bulbourethral gland</td>
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<td>bursa</td>
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<td>hand</td>
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<td>pharynx</td>
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<td>epidural or extradural space</td>
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<td>subarachnoid or subdural space</td>
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<td>cerebrum</td>
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<tr>
<td>cervix</td>
<td>69.95</td>
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<tr>
<td>to assist delivery</td>
<td>73.93</td>
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<tr>
<td>replace inverted uterus</td>
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<tr>
<td>chalazion</td>
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<td>with removal of capsule</td>
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<tr>
<td>cheek</td>
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<tr>
<td>chest wall (for extrapleural drainage) (for removal of foreign body)</td>
<td>34.01</td>
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<tr>
<td>as operative approach --omit code</td>
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<tr>
<td>common bile duct (for exploration)</td>
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<tr>
<td>for relief of obstruction</td>
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<tr>
<td>removal of calculus</td>
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<tr>
<td>common wall between posterior left atrium and coronary sinus (with roofing of resultant defect with patch graft)</td>
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### Incision (and drainage) ---Cont.

<table>
<thead>
<tr>
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<tr>
<td>conjunctiva</td>
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<td>cranial sinus</td>
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<td>craniovascular pouch</td>
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<td>cul-de-sac</td>
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<tr>
<td>radicular (apical) (periapical)</td>
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<td>Duhrssen's (cervix, to assist delivery)</td>
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<tr>
<td>duodenum</td>
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<td>inner</td>
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<td>epididymis</td>
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<td>epidural space, cerebral</td>
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<td>epigastric region</td>
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<td>intra-abdominal</td>
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<td>furuncle --see Incision, by site</td>
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<td>subcutaneous tissue</td>
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<tr>
<td>gum</td>
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<td>hair follicles</td>
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<td>heart</td>
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<td>valve --see Valvulotomy</td>
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<td>hematoma --see also Incision, by site</td>
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<td>fossa (superficial) NEC</td>
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Incision (and drainage) - hematomas --Cont.
groin region (abdominal wall) (inguinal) 54.0
    skin 86.04
    subcutaneous tissue 86.04
laparotomy site 54.12
mediastinum 34.1
perineum (female) 71.09
    male 86.04
popliteal space 86.04
scrotum 61.0
    skin 86.04
    space of Retzius 59.19
    subcutaneous tissue 86.04
vagina (cuff) 70.14
    episotomy site 75.91
    obstetrical NEC 75.92
hepatic ducts 51.59
hordeolum 08.09
hygroma --see also Incision, by site
cystic 40.0
hymen 70.11
hypochondrium 54.0
    intra-abdominal 54.19
hypophysis 07.72
iliac fossa 54.0
infratemporal fossa 27.0
ingrown nail 86.09
intestine 45.00
    large 45.03
    small 45.02
intracerebral 01.39
intradural (epidural space) (extradural space) 01.24
    subarachnoid or subdural space 01.31
intraperitoneal 54.19
    peritoneum 54.95
    by laparotomy 54.19
    pelvic (female) 70.12
    male 54.19
perirenal tissue 59.09
    periureteral tissue 59.09
    periurethral tissue 58.91
    perivesical tissue 59.19
    petrous pyramid (air cells) (apex) (mastoid) 20.21
    parotid gland or duct 26.0
    space 27.0
periurethral tissue 58.91
perivesical tissue 59.19
pharynx, pharyngeal (bursa) 29.0
    space, lateral 27.0
Incision (and drainage) ---Cont.
pilonidal sinus (cyst) 86.03
pineal gland 07.52
pituitary (gland) 07.72
pleura NEC 34.09
popliteal space 86.09
postzygomatic space 27.0
pouch of Douglas 70.12
prostate (perineal approach)
(transurethral approach) 60.0
pterygopalatine fossa 27.0
pulp canal (tooth) 24.0
Rathke's pouch 07.72
rectovaginal septum 48.81
rectum 48.0
stricture 48.91
renal pelvis 55.11
retroperitoneum 54.0
retropharyngeal (oral) (transcervical) 28.0
salivary gland or duct 26.0
sclera 12.89
scrotum 61.0
sebaceous cyst 86.04
seminal vesicle 60.72
sinus ---see Sinusotomy
Skene's duct or gland 71.09
skin 86.09
with drainage 86.04
breast 85.0
cardiac pacemaker pocket, new site 37.79
ear 18.09
nose 21.1
subcutaneous tunnel for pulse
generator lead wire 86.99
with initial procedure --omit code
thalamic stimulator pulse generator
pocket, new site 86.09
with initial insertion of battery
package --omit code
tunnel, subcutaneous for pulse
generator lead wire 86.99
with initial procedure --omit code
skull (bone) 01.24
soft tissue NEC 83.09
with division 83.19
hand 82.19
with division 82.19
space of Retzius 59.19
spermatic cord 63.93
sphincter of Oddi 51.82
endoscopic 51.85
spinal
cord 03.09
nerve root 03.1
spleen 41.2
stomach 43.0
stye 08.09

Incision (and drainage) ---Cont.
subarachnoid space, cerebral 01.31
subcutaneous tissue 86.09
with drainage 86.04
tunnel
esophageal 42.86
with anastomosis - see Anastomosis,
esophageal, antesternal
pulse generator lead wire 86.99
with initial procedure --omit code
subdiaphragmatic space 54.19
subdural space, cerebral 01.31
sublingual space 27.0
submaxillary 86.09
with drainage 86.04
submental space 27.0
subphrenic space 54.19
supraclavicular fossa 86.09
with drainage 86.04
sweat glands, skin 86.04
temporal pouches 27.0
tendon (sheath) 83.01
with division 83.13
hand 82.11
with division 82.11
testis 62.0
tenar space 82.04
thymus (open) (other) 07.92
thoracoscopic 07.95
thyroid (field) (gland) NEC 06.09
postoperative 06.02
tongue NEC 25.94
for tongue tie 25.91
tonsil 28.0
trachea NEC 31.3
tunica vaginalis 61.0
umbilicus 54.0
urachal cyst 54.0
ureter 56.2
urethra 58.0
uterus (corpus) 68.0
cervix 69.96
for termination of pregnancy 74.91
septum (congenital) 68.22
uvula 27.71
vagina (cuff) (septum) (stenosis) 70.14
for
incisional hematoma (episiotomy) 75.91
obstetrical hematoma NEC 75.92
pelvic abscess 70.12
vas deferens 63.6
vein 38.00
abdominal 38.07
head and neck NEC 38.02
intracranial NEC 38.01
lower limb 38.09
Incision (and drainage) - vein  ---Cont.  
thoracic NEC 38.05  
upper limb 38.03  
vertebral column 03.09  
vulva 71.09  
obstetrical 75.92  
web, esophageal 42.01  
Incudectomy NEC 19.3  
with  
  stapedectomy--see also Stapedectomy 19.19  
tympanoplasty --see Tympanoplasty  
Incudopexy 19.19  
Incudostapediopexy 19.19  
with incus replacement 19.11  
Indentation, sclera, for buckling  
--see also Buckling, scleral 14.49  
Indicator dilution flow measurement 89.68  
Induction  
  abortion  
    by  
      D and C 69.01  
      insertion of prostaglandin suppository 96.49  
      intra-amniotic injection (prostaglandin) (saline) 75.0  
  labor  
    medical 73.4  
    surgical 73.01  
    intra- and extra- amniotic injection 73.1  
    stripping of membranes 73.1  
Inflation  
  belt wrap 93.99  
  Eustachian tube 20.8  
  fallopian tube 66.8  
    with injection of therapeutic agent 66.95  
Infolding, sclera, for buckling  
--see also Buckling, scleral 14.49  
Infraction, turbinates (nasal) 21.62  
Infundibulocystectomy  
  hypophyseal --see also Hypophysectomy, partial 07.63  
  ventricle (heart) (right) 35.34  
    in total repair of tetralogy of Fallot 35.81  
Infusion (intra- arterial) (intravenous)  
  with  
    disruption of blood brain barrier [BBBD] 00.19  
    Abciximab 99.20  
    antibiotic  
      oxazolidinone class 00.14  
      antineoplastic agent (chemotherapeutic)99.25  
    biological response modifier [BRM] 99.28  
    cintredexin besudotox 99.28  
    CLO 17.70  
    clofarabine 17.70  
    CLOLAR® 17.70  
    high- dose interleukin- 2 00.15  
    low- dose interleukin- 2 99.28  
    biological response modifier [BRM], antineoplastic agent 99.28  
    cintredexin besudotox 99.28  
    high- dose interleukin- 2 00.15  
    low- dose interleukin- 2 99.28  
    cancer chemotherapy agent NEC 99.25  
    cintredexin besudotox 99.28  
    CLO 17.70  
    clofarabine 17.70  
    CLOLAR® 17.70  
    drotrecogin alfa (activated) 00.11  
    electrolytes 99.18  
    enzymes, thrombolytic (streptokinase) (tissue plasminogen activator) (TPA) (urokinase)  
    direct coronary artery 36.04  
    intravenous 99.10  
    Eptifibatide 99.20  
    gamma globulin 99.14  
    GP IIb/ IIIa inhibitor 99.20  
    hormone substance NEC 99.24  
    human B- type natriuretic peptide (hBNP) 00.13  
    immunosuppressive antibody therapy 00.18  
    interleukin- 2  
      high- dose 00.15  
      low- dose 99.28  
    nesiritide 00.13  
    neuroprotective agent 99.75  
    nimodipine 99.75  
    nutritional substance --see Nutrition  
    platelet inhibitor  
      direct coronary artery 36.04  
      intravenous 99.20  
    Proleukin (low-dose) 99.28  
    high- dose 00.15  
    prophylactic substance NEC 99.29  
    radioisotope (liquid brachytherapy) (liquid I- 125) 92.20  
    radioimmunoconjugate 92.28  
    radioimmunotherapy 92.28  
    recombinant protein 00.11  
    reteplase 99.10  
    therapeutic substance NEC 99.29  
    thrombolytic agent (enzyme) (streptokinase) 99.10  
      with percutaneous transluminal angioplasty  
    Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated.  
      coronary (single vessel) 36.02  
      multiple vessels 36.05  
      non- coronary vessel(s) 39.50  
      specified site NEC 39.50  
      direct intracoronary artery 36.04
Infusion—Cont.
tirofiban (HCL) 99.20
vaccine tumor 99.28
vasopressor 00.17

Injection (into) (hypodermically) (intramuscularly) (intravenously) (acting locally or systemically)
Actinomycin D, for cancer chemotherapy 99.25
adhesion barrier substance 99.77
alcohol
nerve—see Injection, nerve 03.8
anterior chamber, eye (air) (liquid) (medication) 12.92
antibiotic 99.21
oxazolidinone class 00.14
anticoagulant 99.19
anti-D (Rhesus) globulin 99.11
antidote NEC 99.16
anti-infective NEC 99.22
antineoplastic agent (chemotherapeutic) NEC 99.25
biological response modifier [BRM] 99.28
cintredekin besudotox 99.28
high-dose interleukin-2 00.15
low-dose interleukin-2 99.28
antivenin 99.16
barrier substance, adhesion 99.77
BCG for chemotherapy 99.25
vaccine 99.33
biological response modifier [BRM], antineoplastic agent 99.28
cintredekin besudotox 99.28
high-dose interleukin-2 00.15
low-dose interleukin-2 99.28
bone marrow 41.92
transplant—see Transplant, bone, marrow
breast (therapeutic agent) 85.92
inert material (silicone) (bilaterial) 85.52
unilateral 85.51
bursa (therapeutic agent) 83.96
hand 82.94
cancer chemotherapeutic agent 99.25
caudal—see Injection, spinal
cintredekin besudotox 99.28
cortisone 99.23
costochondral junction 81.92
dinoprost- tromethine, intra-aruniotic 75.0
disc, intervertebral (herniated) 80.52
ear, with alcohol 20.72
electrolytes 99.18

Injection—Cont.
enzymes, thrombolytic (streptokinase) (tissue plasminogen activator) (TPA) (urokinase)
direct coronary artery 36.04
intravenous 99.10
epidural, spinal—see Injection, spinal
esophageal varices or blood vessel (endoscopic) (sclerosing agent) 42.33
Eustachian tube (inert material) 20.8
eye (orbit) (retrobulbar) 16.91
anterior chamber 12.92
subconjunctival 10.91
fascia 83.98
hand 82.96
gamma globulin 99.14
ganglion, sympathetic 05.39
ciliary 12.79
paravertebral stellate 05.39
gel, adhesion barrier—see Injection, adhesion barrier substance
globulin
anti-D (Rhesus) 99.11
gamma 99.14
Rh immune 99.11
heart 37.92
heavy metal antagonist 99.16
hemorrhoids (sclerosing agent) 49.42
hormone NEC 99.24
human B-type natriuretic peptide (hBNP) 00.13
immune sera 99.14
inert material—see Implant, inert material
inner ear, for destruction 20.72
insulin 99.17
intervertebral space for herniated disc 80.52
intra-amniotic
for induction of abortion 75.0
labor 73.1
intrathoracal—see Injection, spinal
joint (therapeutic agent) 81.92
temporomandibular 76.96
kidney (cyst) (therapeutic substance) NEC 55.96
larynx 31.0
ligament (joint)(therapeutic substance) 81.92
liver 50.94
lung, for surgical collapse 33.32
Methotrexate, for cancer chemotherapy 99.25
cervix (cervical) (uterine) (peripheral) 04.80
agent NEC 04.89
alcohol 04.2
anesthetic for analgesia 04.81
for operative anesthesia—omit code
neurolytic 04.2
phenol 04.2
laryngeal (external) (recurrent) (superior) 31.91
Injection - Cont.

- optic 16.91
- sympathetic 05.39
- alcohol 05.32
- anesthetic for analgesia 05.31
- neurolytic agent 05.32
- phenol 05.32
- nesiritide 00.13
- neuroprotective agent 99.75
- nimodipine 99.75
- orbit 16.91
- pericardium 37.93
- peritoneal cavity air 54.96
- locally-acting therapeutic substance 54.97
- platelet inhibitor direct coronary artery 36.04 intravenous 99.20
- prophylactic substance NEC 99.29
- prostate 60.92
- radioimmunoconjugate 92.28
- radioimmunotherapy 92.28
- radioisotopes (intracavitary) (intravenous) 92.28
- renal pelvis (cyst) 55.96
- retrobulbar (therapeutic substance) 16.91
- for anesthesia --omit code
- Rh immune globulin 99.11
- RhoGAM 99.11
- sclerosing agent NEC 99.29
- esophageal varices (endoscopic) 42.33
- hemorrhoids 49.42
- pleura 34.92
- treatment of malignancy (cytotoxic agent) 34.92 [99.25]
- with tetracycline 34.92 [99.21]
- varicose vein 39.92
- vein NEC 39.92
- semicircular canals, for destruction 20.72
- silicone --see Implant, inert material skin (sclerosing agent) (filling material) 86.02
- soft tissue 83.98
- hand 82.96
- spinal (canal) NEC 03.92
- alcohol 03.8
- anesthetic agent for analgesia 03.91
- for operative anesthesia --omit code
- contrast material (for myelogram) 87.21
- destructive agent NEC 03.8
- neurolytic agent NEC 03.8
- phenol 03.8
- proteolytic enzyme (chymodiactin) (chymopapain) 80.52
- saline (hypothermic) 03.92
- steroid NEC 03.92
- spinal nerve root (intrathecal) --see Injection, spinal

Injection -- Cont.
- steroid NEC 99.23
- subarachnoid, spinal --see Injection, spinal subconjunctival 10.91
- tendon 83.97
- hand 82.95
- testis 62.92
- therapeutic agent NEC 99.29
- thoracic cavity 34.92
- thrombolytic agent (enzyme)(streptokinase) 99.10
- with percutaneous transluminal angioplasty

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated.

- coronary 00.66
- non coronary vessels 39.50
- specified site NEC 39.50
- direct intracoronary artery 36.04
- trachea 31.94
- tranquilizer 99.26
- tunica vaginalis (with aspiration) 61.91
- tympanum 20.94
- urethra (inert material)
  - for repair of urinary stress incontinence collagen implant 59.72
  - endoscopic injection of implant 59.72
  - fat implant 59.72
  - polytef implant 59.72
- vaccine
  - tumor 99.28
  - varices, esophagus (endoscopic) (sclerosing agent) 42.33
  - esophagus (endoscopic) 42.33
  - varicose vein (sclerosing agent) 39.92
  - esophageal varices 42.33
  - with tetracycline 34.92 [99.21]
- vitreous substitute (silicone) 14.75
- for reattachment of retina 14.59
- vocal cords 31.0

Inlay, tooth 23.3

Inoculation
- antitoxins --see Administration, antitoxins
- toxoids --see Administration, toxoids
- vaccine --see Administration, vaccine

Insemination, artificial 69.92

Insertion
- airway
  - esophageal obturator 96.03
  - nasopharynx 96.01
  - oropharynx 96.02
- Allen- Brown cannula 39.93
- arch bars (orthodontic) 24.7
  - for immobilization (fracture) 93.55
- atrial septal umbrella 35.52
- Austin- Moore prosthesis 81.52
- baffle, heart (atrial) (interatrial)
  - (infra- atrial) 35.91
**Insertion**—Cont.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>ICD-9-CM Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>bag, cervix (nonobstetrical)</td>
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<td>after delivery or abortion</td>
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<td>to assist delivery or induce labor</td>
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<tr>
<td>Baker's (tube) (for stenting)</td>
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<tr>
<td>intestine (for decompression)</td>
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<td>(for dilation)</td>
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<td>with insertion of colonic stent</td>
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<td>other</td>
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<tr>
<td>band (adjustable)</td>
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<td>gastric, laparoscopic</td>
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<td>Lap-Band™</td>
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<tr>
<td>Barton's tongs (skull) (with synchronous skeletal traction)</td>
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</tr>
<tr>
<td>bipolar endoprosthesis (femoral head)</td>
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</tr>
<tr>
<td>Blakemore-Sengstaken tube</td>
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<td>(percutaneous) (semi-invasive)</td>
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<td>--see category 78.9</td>
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<td>bone morphogenetic protein (Infuse™) (OP-1™) (recombinant) (rhBMP)</td>
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<td>bone void filler</td>
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<td>that with percutaneous vertebroplasty</td>
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<td>bougie, cervix, nonobstetrical</td>
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<td>(bilateral)</td>
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<td>caliper tongs (skull) (with synchronous skeletal traction)</td>
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<td>cannula</td>
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<td>Allen-Brown</td>
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<td>for extracorporeal membrane oxygenation (ECMO) --omit code</td>
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<td>nasal sinus (by puncture)</td>
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<td>through natural ostium</td>
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<td>vessel to vessel</td>
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<td>or more leads) (total system)</td>
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<td>catheter</td>
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<td>anterior chamber (eye), for permanent drainage (glaucoma)</td>
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<td>artery</td>
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<td>for hemodialysis</td>
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</tr>
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<td>pressure monitoring</td>
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<tr>
<td>chest</td>
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<tr>
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<tr>
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<td>intracerebral</td>
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<td>therapeutic or palliative substances</td>
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### Insertion —catheter —Cont.

- Swan-Ganz (pulmonary) **89.64**
- transtracheal for oxygenation **31.99**
- vein NEC **38.93**
  - for renal dialysis **38.95**
- chest tube **34.04**
- thoracoscopic **34.06**
- choledochohepatic tube (for decompression) **51.43**
- endoscopic **51.87**
- circulatory support device
  - CentriMag® **37.62**
  - external heart assist device
    - biventricular **37.60**
    - Impella® **37.68**
    - percutaneous **37.68**
    - temporary **37.62**
  - non-implantable **37.62**
  - pVAD (percutaneous VAD) **37.68**
  - TandemHeart® **37.68**
- temporary non-implantable circulatory assist device **37.62**
- cochlear prosthetic device --see Implant, cochlear prosthetic device
- contraceptive device (intrauterine) **69.7**
- CorCap™ **37.41**
- cordis cannula **54.98**
- coronary (artery)

**Note:** Also use **00.40, 00.41, 00.42, or 00.43** to show the total number of vessels treated. Use code **00.44** once to show procedure on a bifurcated vessel. In addition, use **00.45, 00.46, 00.47, or 00.48** to show the number of vascular stents inserted.

- stent, drug-eluting **36.07**
- stent, non-drug-eluting **36.06**
- Crosby-Cooney button **54.98**
- CRT-D (biventricular defibrillator) (BiV ICD) (BiV pacemaker with defibrillator) (BiV pacing with defibrillator) (cardiac resynchronization defibrillator) (device and one or more leads) **00.51**
- left ventricular coronary venous lead only **00.52**
- pulse generator only **00.54**
- CRT-P (biventricular pacemaker) (BiV pacemaker) (cardiac resynchronization pacemaker) (device and one or more leads) **00.50**
- left ventricular coronary venous lead only **00.52**
- pulse generator only **00.53**
- Crutchfield tongs (skull) (with synchronous skeletal traction) **02.94**

### Insertion —Cont.

- Davidson button **54.98**
- denture (total) **99.97**
- device
  - adjustable gastric band and port **44.95**
  - bronchial device NOS **33.79**
  - bronchial substance NOS **33.79**
  - bronchial valve(s)
    - multiple lobes **33.73**
    - single lobe **33.71**
  - cardiac resynchronization --see Insertion, cardiac resynchronization device
  - cardiac support device (CSD) **37.41**
  - CorCap™ **37.41**
  - epicardial support device **37.41**
  - Lap-Band™ **44.95**
  - left atrial appendage **37.41**
  - left atrial filter **37.90**
  - left atrial occluder **37.90**
  - prosthetic cardiac support device **37.41**
  - vascular access **86.07**
  - ventricular support device **37.41**
- diaphragm, vagina **96.17**
- drainage tube
  - kidney **55.02**
  - pelvis **55.12**
  - renal pelvis **55.12**
- Dynesys® **84.82**
- elbow prosthesis (total) **81.84**
- revision **81.97**
- electrode(s)
  - bone growth stimulator (invasive) (percutaneous) (semi-invasive) --see category **78.9**
  - brain **02.93**
    - depth **02.93**
    - foramen ovale **02.93**
    - sphenoidal **02.96**
  - depth **02.93**
  - foramen ovale **02.93**
  - gastric **04.92**
  - heart (initial) (transvenous) **37.70**
    - atrium (initial) **37.73**
      - replacement **37.76**
    - atrium and ventricle (initial) **37.72**
      - replacement **37.76**
    - epicardium (sternotomy or thoracotomy approach) **37.74**
  - left ventricular coronary venous system **00.52**
  - temporary transvenous pacemaker system **37.78**
  - during and immediately following cardiac surgery **39.64**
  - ventricle (initial) **37.71**
    - replacement **37.76**
  - intracranial **02.93**
  - osteogenic (for bone growth stimulation) --see category **78.9**
**Insertion - electrode(s)** --Cont.
peripheral nerve 04.92
sacral nerve 04.92
sphenoidal 02.96
spine 03.93
electroencephalographic receiver --see
Implant, electroencephalographic receiver, by site
electronic stimulator --see Implant, electronic stimulator, by site
electrostimulator --see Implant, electronic stimulator, by site
endograft(s), endovascular graft(s)
endovascular, abdominal aorta 39.71
endovascular, head and neck vessels 39.72
endovascular, other vessels (for aneurysm) 39.79
endovascular, thoracic aorta 39.73
endoprosthesis
bile duct 51.87
femoral head (bipolar) 81.52
pancreatic duct 52.93
epidural pegs 02.93
external fixation device (bone) --see category 78.1
facial bone implant (alloplastic) (synthetic) 76.92
filling material, skin (filling of defect) 86.02
filter
vena cava (inferior) (superior) (transvenous) 38.7
fixator, mini device (bone) --see category 78.1
frame (stereotactic)
for radiosurgery 93.59
Gardner Wells tongs (skull) (with synchronous skeletal traction) 02.94
gastric bubble (balloon) 44.93
globe, into eye socket 16.69
Greenfield filter 38.7
halo device (skull) (with synchronous skeletal traction) 02.94
Harrington rod --see also Fusion, spinal, by level
with dorsal, dorsolumbar fusion 81.05
Harris pin 79.15
heart
assist system --see Implant, heart assist system
cardiac support device (CSD) 37.41
circulatory assist system --see Implant, heart assist system
CorCap™ 37.41
epicardial support device 37.41
Impella® 37.68
pacemaker --see Insertion, pacemaker, cardiac

**Insertion - heart** --Cont.
prosthetic cardiac support device 37.41
pump (Kantrowitz) 37.62
valve --see Replacement, heart valve
ventricular support device 37.41
hip prosthesis (partial) 81.52
revision NOS 81.53
acetabular and femoral components (total) 00.70
acetabular component only 00.71
acetabular liner and/or femoral head only 00.73
femoral component only 00.72
femoral head only and/or acetabular liner 00.73
partial
acetabular component only 00.71
acetabular liner and/or femoral head only 00.73
femoral component only 00.72
femoral head only and/or acetabular liner 00.73
total (acetabular and femoral components) 00.70
revision
acetabular and femoral components (total) 00.70
total (acetabular and femoral components) 00.70
Holter valve 02.2
Hufnagel valve --see Replacement, heart valve
implant --see Insertion, prosthesis
infusion pump 86.06
interbody spinal fusion device 84.51
intercostal catheter (with water seal) for drainage 34.04
revision (with lysis of adhesions) 34.04
thoracoscopic 34.06
intra-arterial blood gas monitoring system 89.60
intruterine contraceptive device 69.7
radium (intracavitary) 69.91
tamponade (nonobstetric) 69.91
Kantrowitz heart pump 37.62
pulsation balloon (phase-shift) 37.61
keratoprosthesis 11.73
King- Mills umbrella device (heart) 35.52
Kirschner wire 93.44
with reduction of fracture or dislocation --see Reduction, fracture and
Reduction, dislocation
knee prosthesis (partial (total) 81.54
revision NOS 81.55
femoral component 00.82
Insertion - knee prosthesis - revision --Cont.
  partial
    femoral component 00.82
    patellar component 00.83
    tibial component 00.81
    tibial insert 00.84
    patellar component 00.83
    tibial component 00.81
    tibial insert 00.84
    total (all components) 00.80

Lap-Band™ 44.95
laminaria, cervix 69.93
larynx, valved tube 31.75
leads --see Insertion, electrode(s)
  lens, prosthetic (intraocular) 13.70
    with cataract extraction, one-stage 13.71
    secondary (subsequent to cataract extraction) 13.72
limb lengthening device, internal, NOS 84.54
  with kinetic distraction 84.53
loop recorder 37.79
M-Brace 84.82
metal staples into epiphyseal plate --see also Stapling, epiphyseal plate 78.20
minifixator device (bone)
  --see category 78.1
Mobitz-Uddin umbrella, vena cava 38.7
mold, vagina 96.15
Moore (cup) 81.52
myringotomy device (button) (tube) 20.01
  with intubation 20.01
nasobiliary drainage tube (endoscopic) 51.86
nasogastric tube
for
  decompression, intestinal 96.07
  feeding 96.6
nasointestinal tube 96.08
nasolacrimal tube or stent 09.44
nasopancreatic drainage tube (endoscopic) 51.86
neuropacemaker --see Implant, neurostimulator, by site
neurostimulator --see Implant, neurostimulator, by site
non-coronary vessel stent(s) (stent graft)

Insertion - non-coronary vessel - stent --Cont.
  with angioplasty or atherectomy 39.50
  with bypass --omit code
  basilar 00.64
carotid 00.63
extracranial 00.64
intracranial 00.65
  peripheral 39.90
    bare, drug-coated 39.90
drug-eluting 00.55
vertebral 00.64
non-invasive (transcutaneous) (surface) stimulator 99.86
obtur (orthodontic) 24.7
ocular implant
  with synchronous
    enucleation 16.42
      with muscle attachment to implant 16.41
evisceration 16.31
  following or secondary to enucleation 16.61
evisceration 16.61
Ommaya reservoir 02.2
orbital implant (stent) (outside muscle cone) 16.69
  with orbitotomy 16.02
orthodontic appliance (obtur) (wiring) 24.7
outflow tract prosthesis (gusset type) (heart) in
  pulmonary valvuloplasty 35.26
  total repair of tetralogy of Fallot 35.81
pacemaker
  brain --see Implant, neurostimulator, brain
  cardiac (device) (initial) (permanent)
    (replacement) 37.80
  dual- chamber device (initial) 37.83
    replacement 37.87
  during and immediately following cardiac surgery 39.64
  resynchronization (biventricular pacemaker) (Biv pacemaker) (CRT- P) (device)
    device only (initial) (replacement) 00.53
  total system (device and one or more leads) 00.50
  transvenous lead into left ventricular coronary venous system 00.52
  single- chamber device (initial) 37.81
    rate responsive 37.82
      replacement 37.85
        rate responsive 37.86
  temporary transvenous pacemaker system 37.78
  during and immediately following cardiac surgery 39.64
carotid 39.8

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated.
Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

ICD-9-CM INDEX TO PROCEDURES (FY10)
<table>
<thead>
<tr>
<th>Insertion - pacemaker ---Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>gastric 04.92</td>
</tr>
<tr>
<td>heart--see Insertion, pacemaker, cardiac</td>
</tr>
<tr>
<td>intracranial --see Implant, neurostimulator, intracranial neural --see Implant, neurostimulator, by site</td>
</tr>
<tr>
<td>peripheral nerve --see Implant, neurostimulator, peripheral nerve spine --see Implant, neurostimulator, spine</td>
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<tr>
<td>pacing catheter --see Insertion, pacemaker, cardiac pack</td>
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<td>auditory canal, external 96.11</td>
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<td>cervix (nonobstetrical) 67.0</td>
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<td>to assist delivery or induce labor 73.1</td>
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<td>rectum 96.19</td>
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<td>sella turcica 07.79</td>
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<td>palatal implant 27.64</td>
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<td>penile prosthesis (non-inflatable) (internal) 64.95</td>
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<tr>
<td>inflatable (internal) 64.97</td>
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<td>periodontal splint (orthodontic) 24.7</td>
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<tr>
<td>peripheral blood vessel --see non-coronary pessary cervix 96.18</td>
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<td>to assist delivery or induce labor 73.1</td>
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<tr>
<td>vagina 96.18</td>
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<tr>
<td>pharyngeal valve, artificial 31.75</td>
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<tr>
<td>port, vascular access 86.07</td>
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<td>prostaglandin suppository (for abortion) 96.49</td>
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<td>prosthesis, prosthetic device acetabulum (partial) 81.52</td>
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<tr>
<td>hip 81.52</td>
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<tr>
<td>revision NOS 81.53</td>
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<td>acetabular and femoral components (total) 00.70</td>
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<td>total (acetabular and femoral components) 00.70</td>
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<td>revision 81.53</td>
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<td>ankle (total) 81.56</td>
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<table>
<thead>
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<tr>
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<td>biliary tract 51.99</td>
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<tr>
<td>breast (bilateral) 85.54</td>
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<tr>
<td>unilateral 85.53</td>
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<tr>
<td>cardiac support device (CSD) (CorCap™) 37.41</td>
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<tr>
<td>chin (polyethylene) (silastic) 76.68</td>
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<td>elbow (total) 81.84</td>
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<tr>
<td>femoral head (Austin-Moore) (bipolar) (Eicher) (Thompson) 81.52</td>
</tr>
<tr>
<td>hip (partial) 81.52</td>
</tr>
<tr>
<td>revision NOS 81.51</td>
</tr>
<tr>
<td>acetabular and femoral components (total) 00.70</td>
</tr>
<tr>
<td>acetabular component only 00.71</td>
</tr>
<tr>
<td>acetabular liner and/or femoral head only 00.73</td>
</tr>
<tr>
<td>femoral component only 00.72</td>
</tr>
<tr>
<td>femoral head only and/or acetabular liner 00.73</td>
</tr>
<tr>
<td>partial acetabular component only 00.71</td>
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<tr>
<td>acetabular liner and/or femoral head only 00.73</td>
</tr>
<tr>
<td>femoral component only 00.72</td>
</tr>
<tr>
<td>femoral head only and/or acetabular liner 00.73</td>
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<tr>
<td>total (acetabular and femoral components) 00.70</td>
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<tr>
<td>total 81.51</td>
</tr>
<tr>
<td>revision acetabular and femoral components (total) 00.70</td>
</tr>
<tr>
<td>total (acetabular and femoral components) 00.70</td>
</tr>
<tr>
<td>joint --see Arthroplasty knee (partial) (total) 81.54</td>
</tr>
<tr>
<td>revision NOS 81.55</td>
</tr>
<tr>
<td>femoral component 00.82</td>
</tr>
<tr>
<td>partial femoral component 00.82</td>
</tr>
<tr>
<td>patellar component 00.83</td>
</tr>
<tr>
<td>tibial component 00.81</td>
</tr>
<tr>
<td>tibial insert 00.84</td>
</tr>
<tr>
<td>patellar component 00.83</td>
</tr>
<tr>
<td>tibial component 00.81</td>
</tr>
<tr>
<td>tibial insert 00.84</td>
</tr>
<tr>
<td>total (all components) 00.80</td>
</tr>
<tr>
<td>leg (bioelectric) (cineplastic) (kineplastic) 84.48</td>
</tr>
<tr>
<td>lens 13.91</td>
</tr>
</tbody>
</table>
**Insertion** - prosthesis -- *Cont.*

ocular (secondary) 16.61
with orbital exenteration 16.42
outflow tract (gusset type) (heart) in
pulmonary valvuloplasty 35.26
total repair of tetralogy of Fallot 35.81
penis (internal) (noninflatable) 64.95
with
construction 64.43
reconstruction 64.44
inflatable (internal) 64.97
Rosen (for urinary incontinence) 59.79
shoulder
partial 81.81
revision 81.97
total 81.80
spine
artificial disc, NOS 84.60
cervical 84.62
nucleus 84.61
partial 84.61
total 84.62
lumbar, lumbosacral 84.65
nucleus 84.64
partial 84.64
total 84.65
thoracic (partial)(total) 84.63
other device 84.59
testicular (bilateral) (unilateral) 62.7
toe 81.57
hallux valgus repair 77.59
vagina
synthetic 70.95
pseudophakos -- see also Insertion, lens 13.70
pump, infusion 86.06
radioactive isotope 92.27
radium 92.27
radon seeds 92.27,
Reuter bobbin (with intubation) 20.01
Rickham reservoir 02.2
Rosen prosthesis (for urinary incontinence) 59.79
Scribner shunt 39.93
Sengstaken- Blakemore tube 96.06
sensor(lead)
  intra-aneurysm sac pressure monitoring device 00.58
  intra-arterial, for continuous blood gas monitoring 89.60
  intracardiac or great vessel hemodynamic monitoring 00.56
shunt -- see Shunt
sieve, vena cava 38.7
skeletal muscle stimulator 83.92
skull
  plate 02.05

**Insertion** -- prosthesis - skull -- *Cont.*

stereotactic frame 93.59
tongs (Barton) (caliper) (Garder Wells) (Vinke) (with synchronous skeletal traction) 02.94
spacer (cement) (joint) (methylmethacrylate) 84.56
spine 84.51
sphenoidal electrodes 02.96
spine
  bone void filler
  that with percutaneous vertebral augmentation 81.66
  that with percutaneous vertebroplasty 81.65
cage (BAK) 84.51
facet replacement device(s) 84.84
interbody spinal fusion device 84.51
interspinous process decompression device 84.80
non-fusion stabilization device -- see category 84.8
pedicle-based dynamic stabilization device(s) 84.82
posterior motion preservation device(s) -- see category 84.8
spacer 84.51
Spitz-Holter valve 02.2
Steinmann pin 93.44
  with reduction of fracture or dislocation -- see Reduction, fracture and Reduction, dislocation
stent(s) (stent graft)
  artery (bare) (bonded) (drug coated)
    (non- drug- eluting)
      basilar 00.64
carotid 00.63
cerebrovascular
cerebral (intracranial) 00.65
precerebral (extracranial) 00.64
carotid 00.63
coronary (bare) (bonded) (drug coated)
  (non- drug- eluting) 36.06
drug- eluting 36.07
extracranial 00.64
carotid 00.63
intracranial 00.65
non- coronary vessel
frdbasilar 00.64

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
**Insertion** – stent(s) – artery
- non-coronary – **Cont.**
  - carotid 00.63
  - extracranial 00.64
  - intracranial 00.65
  - peripheral 39.90
    - bare, drug-coated 39.90
    - drug-eluting 00.55
  - vertebral 00.64
  - bile duct 51.43
  - endoscopic 51.87
  - percutaneous transhepatic 51.98
  - colon
    - endoscopic (fluoroscopic guidance) 46.86
    - other 46.87
  - coronary (artery) (bare) (bonded)
    - (drug coated) (non-drug-eluting) 36.06

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- drug-eluting 36.07
- esophagus (endoscopic)(fluoroscopic) 42.81
- mesenteric 39.90
  - bare, drug-coated 39.90
  - drug-eluting 00.55
- non-coronary vessel

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- with angioplasty or atherectomy 39.50
- with bypass -- omit code
  - basilar 00.64
  - carotid 00.63
  - extracranial 00.64
  - intracranial 00.65
  - mesenteric 39.90
    - bare, drug-coated 39.90
    - drug-eluting 00.55
  - peripheral 39.90
    - bare, drug-coated 39.90
    - drug-eluting 00.55

**Insertion** – stent(s) - non-coronary vessel – **Cont.**
- renal 39.90
  - bare, drug-coated 39.90
  - drug-eluting 00.55
  - vertebral 00.64
  - pancreatic duct 52.92
  - endoscopic 52.93
  - peripheral vessel 39.90

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- bare, drug-coated 39.90
- drug-eluting 00.55
- precerebral 00.64

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- renal 39.90
  - bare, drug-coated 39.90
  - drug-eluting 00.55
- subclavian 39.90

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

- bare, drug-coated 39.90
- drug-eluting 00.55
- tracheobronchial 96.05
- vertebral 00.64

Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
Insertion—Cont.
stimoceiver—see Implant, neurostimulator, by site
stimulator for bone growth—see category 78.9
subdural
grids 02.93
strips 02.93
suppository
prostaglandin (for abortion) 96.49
vagina 96.49
Swan-Ganz catheter (pulmonary) 89.64
tampon
esophagus 96.06
uterus 69.91
vagina 96.14
after delivery or abortion 75.8
Tandem™ heart 37.68
telecope (IMT) (miniature) 13.91
testicular prosthesis (bilateral) (unilateral) 62.7
tissue expander (skin) NEC 86.93
breast 85.95
tissue mandril (peripheral vessel) (Dacron) (Spark’s type) 39.99
with
blood vessel repair 39.56
vascular bypass or shunt—see Bypass, vascular
tongs, skull (with synchronous skeletal traction) 02.94
totally implanted device for bone growth (invasive)—see category 78.9
tube—see also Catheterization and Intubation
bile duct 51.43
endoscopic 51.87
chest 34.04
revision (with lysis of adhesions) 34.04
thoracoscopic 34.06
thoracoscopic 34.06
endotracheal 96.04
esophagus (nonoperative) (Sengstaken) 96.06
permanent (silicone) (Souttar) 42.81
feeding
esophageal 42.81
gastric 96.6
nasogastric 96.6
gastric by gastrostomy—see category 43.1
for decompression, intestinal 96.07
feeding 96.6
intercostal (with water seal), for drainage 34.04
revision (with lysis of adhesions) 34.04
thoracoscopic 34.06

Insertion—tube—Cont.
Miller-Abbott (for intestinal decompression) 96.08
nasobiliary (drainage) 51.86
nasogastric (for intestinal decompression) NEC 96.07
naso-intestinal 96.08
nasopancreatic drainage (endoscopic) 52.97
pancreatic duct 52.92
endoscopic 52.93
rectum 96.09
stomach (nasogastric) (for intestinal decompression) NEC 96.07
for feeding 96.6
tracheobronchial 96.05
umbrella device
atrial septum (King-Mills) 35.52
vena cava (Mobitz-Uddin) 38.7
ureteral stent (transurethral) 59.8
with ureterotomy 59.8 [56.2]
urinary sphincter, artificial (AUS) (inflatable) 58.93
vaginal mold 96.15
valve(s)
bronchus
multiple lobes 33.73
single lobe 33.71
Holter 02.2
Hufnagel—see Replacement, heart valve pharyngeal (artificial) 31.75
Spitz-Holter 02.2
vas deferens 63.95
vascular access device, totally implantable 86.07
vena cava sieve or umbrella 38.7
Vinke tongs (skull) (with synchronous skeletal traction) 02.94
X Stop™ 84.80
Instillation
bladder 96.49
digestive tract, except gastric gavage 96.43
genitourinary NEC 96.49
radioisotope (intracavitary) (intravenous) 92.28
thoracic cavity 34.92
Insufflation
Eustachian tube 20.8
fallopian tube (air)(dye)(gas)(saline) 66.8
for radiography—see Hysterosalpingography
therapeutic substance 66.95
lumbar retroperitoneal, bilateral 88.15
thoracic cavity 34.92
Interleukin-2, infusion
high-dose 00.15
low-dose 99.28
ICD-9-CM INDEX TO PROCEDURES (FY 10)

Intermittent positive pressure breathing (IPPB) 93.91

Interposition operation
esophageal reconstruction (intrathoracic) (retrosternal) NEC --see also Anastomosis, esophagus, with, interposition 42.58 antesternal or antethoracic NEC --see also Anastomosis, esophagus, antesternal, with, interposition 42.68 uterine suspension 69.21

Interrogation
cardiocuter- defibrillator, automatic(AICD) with catheter based invasive electrophysiologic testing 37.26 with NIPS (arrhythmia induction) 37.26 interrogation only (bedside device check) 89.49 CRT- D (cardiac resynchronization defibrillator) with catheter based invasive electrophysiologic testing 37.26 with NIPS (arrhythmia induction) 37.26 interrogation only (bedside device check) 89.49 CRT- P (cardiac resynchronization pacemaker) with catheter based invasive electrophysiologic testing 37.26 with NIPS (arrhythmia induction) 37.26 interrogation only (bedside device check) 89.45 pacemaker with catheter based invasive electro-physiologic testing 37.26 with NIPS (arrhythmia induction) 37.26 interrogation only (bedside device check) 89.45

Interruption
vena cava (inferior) (superior) 38.7

Interview (evaluation) (diagnostic)
medical, except psychiatric 89.05 brief (abbreviated history) 89.01 comprehensive (history and evaluation of new problem) 89.03 limited (interval history) 89.02 specified type NEC 89.04 psychiatric NEC 94.19 follow-up 94.19 initial 94.19 pre-commitment 94.13

Intimectomy 38.10
abdominal 38.16 aorta (arch)(ascending)(descending) 38.14 head and neck NEC 38.12 intracranial NEC 38.11 lower limb 38.18 thoracic NEC 38.15 upper limb 38.13

Intraoperative anesthetic effect monitoring and titration (IAEMT) 00.94 [89.14]

Introduction
orthodontic appliance 24.7 therapeutic substance (acting locally or systemically) NEC 99.29 bursa 83.96 hand 82.94 fascia 83.98 hand 82.96 heart 37.92 joint 81.92 temporomandibular 76.96 ligament (joint) 81.92 pericardium 37.93 soft tissue NEC 83.98 hand 82.96 tendon 83.97 hand 82.95 vein 39.92

Intubation --see also Catheterization and Insertion bile duct(s) 51.59 common 51.51 endoscopic 51.87 esophagus(nonoperative)(Sengstaken) 96.06 permanent tube (silicone)(Souttar) 42.81 Eustachian tube 20.8 intestine (for decompression) 96.08 lacrimal for dilation 09.42 tear drainage, intranasal 09.81 larynx 96.05 nasobiliary (drainage) 51.86 nasogastric for decompression, intestinal 96.07 feeding 96.6 naso-intestinal 96.08 nasolacrimal (duct) (with irrigation) 09.44 nasopancreatic drainage(endoscopic) 52.97 respiratory tract NEC 96.05 small intestine (Miller-Abbott) 96.08 stomach (nasogastric) (for intestinal decompression) NEC 96.07 for feeding 96.6 trachea 96.04 ventriculocisternal 02.2

Invagination, diverticulum
gastric 44.69 laparoscopic 44.68 pharynx 29.59 stomach 44.69 laparoscopic 44.68
ICD-9-CM INDEX TO PROCEDURES (FY10)

**Inversion**
appendix 47.99
diverticulum
gastric 44.69
laparoscopic 44.68
intestine
large 45.49
devicoscopic 45.43
small 45.34
stomach 44.69
laparoscopic 44.68
tunica vaginalis 61.49

**IOERT** (intra-operative electron radiation therapy) 92.41

**IOM** (intra-operative neurophysiologic monitoring) 00.94

**Ionization, medical** 99.27

**Iontherapy** 99.27

**Iontophoresis** 99.27

**Iridectomy** (basal) (buttonhole) (optical) (peripheral) (total) 12.14
with
capsulectomy 13.65
cataract extraction --see Extraction, cataract
filtering operation (for glaucoma) NEC 12.65
gleaucoma NEC 12.65
scleral
fistulization 12.65
thermocauterization 12.62
trephination 12.61

**Iridencleisis** 12.63

**Iridis** 12.63

**Irido- capsulectomy** 13.65

**Iridocyclectomy** 12.44

**Iridocystectomy** 12.42

**Iridodesis** 12.63

**Iridoplasty NEC** 12.39

**Iridosclerectomy** 12.65

**Iridosclerotomy** 12.69

**Iridotasis** 12.63

**Iridotomy** 12.12
by photocoagulation 12.12
with transfixion 12.11
for iris bombe 12.11
specified type NEC 12.12

**Iron lung** 93.99

**Irradiation** gamma, stereotactic 92.32

**Irrigation** ---Cont.
cholecystostomy 96.41
cornea 96.51
with removal of foreign body 98.21
corpus cavernosum 64.98
cystostomy 96.47
ear (removal of cerumen) 96.52
enterostomy 96.36
eye 96.51
with removal of foreign body 98.21
gastrostomy 96.36
lacrimal
canalici 09.42
punctum 09.41
muscle 83.02
hand 82.02
nasal
passages 96.53
sinus 22.00
nasolacrimal duct 09.43
with insertion of tube or stent 09.44
nephrostomy 96.45
peritoneal 54.25
pyelostomy 96.45
rectal 96.39
stomach 96.33
tendon (sheath) 83.01
hand 82.01
trachea NEC 96.56
traumatic cataract 13.3

**Irrigation---Cont.**
tube
biliary NEC 96.41
nasogastric NEC 96.34
pancreatic 96.42
ureterostomy 96.46
ventricular shunt 02.41
wound (cleaning) NEC 96.59

**Irving operation** (tubal ligation) 66.32

**Irwin operation** --see also Osteotomy 77.30

**Isthmectomy** (partial) 77.89

**Ischiectomy** (partial) 77.89
total 77.99

**Ischiopubiotomy** 77.39

**Isolation**
after contact with infectious disease 99.84
ileal loop 45.51
intestinal segment or pedicle flap
large 45.52
small 45.51

**Isthmectomy, thyroid**
--see also Thyroidectomy, partial 06.39

**IVUS** --see Ultrasound, intravascular, by site
**Jaboulay operation** (gastroduodenostomy) 44.39
laparoscopic 44.38

**Janeway operation** (permanent gastrostomy) 43.19

**Jatene operation** (arterial switch) 35.84

**Jejunectomy** 45.62
**Jejunocecostomy** 45.93
**Jejunocholecystostomy** 51.32
**Jejunocolostomy** 45.93
**Jeunoileostomy** 45.91
**Jeunojejunostomy** 45.91
**Jeunopexy** 46.61
**Jeunorrhaphy** 46.73
**Jeunostomy** (feeding) 46.39
  delayed opening 46.31
  loop 46.01
  percutaneous (endoscopic) (PEJ) 46.32
  revision 46.41

**Jeunotomy** 45.02

**Johanson operation** (urethral reconstruction) 58.46

**Jones operation**
claw toe (transfer of extensor hallucis longus tendon) 77.57
  modified (with arthrodesis) 77.57
dacryocystorhinostomy 09.81
hammer toe (interphalangeal fusion) 77.56
modified (tendon transfer with arthrodesis) 77.57
repair of peroneal tendon 83.88

**Joplin operation** (exostectomy with tendon transfer) 77.53
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kader operation</td>
<td>(temporary gastrostomy) 43.19</td>
</tr>
<tr>
<td>Kasai portoenterostomy</td>
<td>51.37</td>
</tr>
<tr>
<td>Kaufman operation</td>
<td>(for urinary stress incontinence) 59.79</td>
</tr>
<tr>
<td>Kazanjian operation</td>
<td>(buccal vestibular sulcus extension) 24.91</td>
</tr>
<tr>
<td>Kehr operation</td>
<td>(hepatopexy) 50.69</td>
</tr>
<tr>
<td>Keller operation</td>
<td>(bunionectomy) 77.59</td>
</tr>
<tr>
<td>Kelly (-Kennedy) operation</td>
<td>(urethrovesical plication) 59.3</td>
</tr>
<tr>
<td>Kelly-Stoeckel operation</td>
<td>(urethrovesical plication) 59.3</td>
</tr>
<tr>
<td>Kelotomy</td>
<td>53.9</td>
</tr>
<tr>
<td>Keratectomy</td>
<td>(complete) (partial) 11.49</td>
</tr>
<tr>
<td>for pterygium</td>
<td>11.39</td>
</tr>
<tr>
<td>with corneal graft</td>
<td>11.32</td>
</tr>
<tr>
<td>Keratocentesis</td>
<td>(for hyphema) 12.91</td>
</tr>
<tr>
<td>Keratomileusis</td>
<td>11.71</td>
</tr>
<tr>
<td>Keratoplasty</td>
<td>(tectonic) (with autograft) 11.60</td>
</tr>
<tr>
<td>(with homograft)</td>
<td>11.61</td>
</tr>
<tr>
<td>lamellar (nonpenetrating) (with homograft)</td>
<td>11.62</td>
</tr>
<tr>
<td>with autograft</td>
<td>11.63</td>
</tr>
<tr>
<td>penetrating (full-thickness) (with homograft)</td>
<td>11.64</td>
</tr>
<tr>
<td>with autograft</td>
<td>11.65</td>
</tr>
<tr>
<td>perforating --see Keratoplasty, penetrating refractive</td>
<td>11.71</td>
</tr>
<tr>
<td>specified type NEC</td>
<td>11.69</td>
</tr>
<tr>
<td>Keratoprosthesis</td>
<td>11.73</td>
</tr>
<tr>
<td>Keratotomy</td>
<td>(delimiting) (posterior) 11.1</td>
</tr>
<tr>
<td>radial (refractive)</td>
<td>11.75</td>
</tr>
<tr>
<td>Kerr operation</td>
<td>(low cervical cesarean section) 74.1</td>
</tr>
<tr>
<td>Kessler operation</td>
<td>(arthroplasty, carpometacarpal joint) 81.74</td>
</tr>
<tr>
<td>Kidner operation</td>
<td>(excision of accessory navicular bone) (with tendon transfer) 77.98</td>
</tr>
<tr>
<td>Killian operation</td>
<td>(frontal sinusotomy) 22.41</td>
</tr>
<tr>
<td>Kineplasty</td>
<td>--see Cineplasty</td>
</tr>
<tr>
<td>King-Steelquist operation</td>
<td>(hind-quarter amputation) 84.19</td>
</tr>
<tr>
<td>Kirk operation</td>
<td>(amputation through thigh) 84.17</td>
</tr>
<tr>
<td>Kock pouch</td>
<td>bowel anastomosis --omit code</td>
</tr>
<tr>
<td>continent ileostomy</td>
<td>46.22</td>
</tr>
<tr>
<td>cutaneous uretero-ileostomy</td>
<td>56.51</td>
</tr>
<tr>
<td>ESWL (electrocorporeal shockwave lithotripsy)</td>
<td>98.51</td>
</tr>
<tr>
<td>removal, calculus</td>
<td>57.19</td>
</tr>
<tr>
<td>revision, cutaneous uretero-ileostomy</td>
<td>56.52</td>
</tr>
<tr>
<td>urinary diversion procedure</td>
<td>56.51</td>
</tr>
<tr>
<td>Kockogram</td>
<td>(ileal conduitogram) 87.78</td>
</tr>
<tr>
<td>Kockoscopy</td>
<td>45.12</td>
</tr>
<tr>
<td>Kondoleon operation</td>
<td>(correction of lymphedema) 40.9</td>
</tr>
<tr>
<td>Krause operation</td>
<td>(sympathetic denervation) 05.29</td>
</tr>
<tr>
<td>Kroener operation</td>
<td>(partial salpingectomy) 66.69</td>
</tr>
<tr>
<td>Kroenlein operation</td>
<td>(lateral orbitotomy) 16.01</td>
</tr>
<tr>
<td>Kronig operation</td>
<td>(low cervical cesarean section) 74.1</td>
</tr>
<tr>
<td>Krunkenberg operation</td>
<td>(reconstruction of below-elbow amputation) 82.89</td>
</tr>
<tr>
<td>Kuhnt-Szymanowski operation</td>
<td>(ectropion repair with lid reconstruction) 08.44</td>
</tr>
<tr>
<td>Kyphoplasty</td>
<td>81.66</td>
</tr>
</tbody>
</table>
Labbe operation (gastrotomy) 43.0
Labiectomy (bilateral) 71.62
unilateral 71.61
Labyrinthectomy (transstympanic) 20.79
Labyrinthotomy (transstympanic) 20.79
Ladd operation (mobilization of intestine) 54.95
Lagrange operation (iridosclerectomy) 12.65
Lambrinudi operation (triple arthrodesis) 81.12
Laminectomy (decompression)
(for exploration) 03.09
as operative approach --omit code
with
excision of herniated intervertebral disc (nucleus pulposus) 80.51
excision of other intraspinal lesion(tumor) 03.4
reopening of site 03.02
Laminography --see Radiography
Laminoplasty, expansile 03.09
Laminotomy (decompression)
(for exploration) 03.09
as operative approach --omit code
reopening of site 03.02
Langenbeck operation (cleft palate repair) 27.62
Laparoamnioscopy 75.31
Laparorrhaphy 54.63
Laparoscopy 54.21
with
biopsy (intra-abdominal) 54.24
uterine ligaments 68.15
uterus 68.16
destruction of fallopian tubes --see Destruction, fallopian tube
Laparotomy NEC 54.19
as operative approach --omit code
exploratory (pelvic) 54.11
reopening of recent operative site (for control of hemorrhage) (for exploration) (for incision of hematoma) 54.12
Laparotraceholotomy 74.1
Lapidus operation (bunionectomy with metatarsal osteotomy) 77.51
Larry operation (shoulder disarticulation) 84.08
Laryngectomy
with radical neck dissection (with synchronous thyroidectomy) (with synchronous tracheostomy) 30.4
complete (with partial laryngectomy) (with synchronous tracheostomy) 30.3
with radical neck dissection (with synchronous thyroidectomy) (with synchronous tracheostomy) 30.4
Laryngectomy --Cont.
frontolateral partial (extended) 30.29
glottosupraglottic partial 30.29
lateral partial 30.29
partial (frontolateral) (glottosupraglottic) (lateral) (submucous) (supraglottic) (vertical) 30.29
radical (with synchronous thyroidectomy) (with synchronous tracheostomy) 30.4
submucous (partial) 30.29
supraglottic partial 30.29
total (with partial pharyngectomy) (with synchronous tracheostomy) 30.3
with radical neck dissection (with synchronous thyroidectomy) (with synchronous tracheostomy) 30.4
vertical partial 30.29
wide field 30.3
Laryngocentesis 31.3
Laryngoesophagectomy 30.4
Laryngofissure 30.29
Radical(with synchronous thyroidectomy) 30.4
Laryngopharyngectomy (with synchronous tracheostomy) 30.4
with radical neck dissection (with synchronous thyroidectomy) 30.4
Laryngopharyngoesophagectomy (with synchronous tracheostomy) 30.4
Laryngoplasty 31.69
Laryngorrhaphy 31.61
Laryngoscopy (suspension) (through artificial stoma) 31.42
Laryngostomy (permanent) 31.29
revision 31.63
temporary (emergency) 31.1
Laryngotomy 31.3
Laryngotracheobronchoscopy 33.23
with biopsy 33.24
Laryngotracheoscopy 31.42
Laryngotracheostomy (permanent) 31.29
temporary (emergency) 31.1
Laryngotracheotomy (permanent) 31.1
permanent 31.29
Laser --see also Coagulation, Destruction, and Photocoagulation by site
glioblastoma, percutaneous transluminal 39.59
coronary --see Angioplasty, coronary
Laser interstitial thermal therapy (LITT) under guidance
lesion
brain 17.61
breast 17.69
head and neck 17.62
liver 17.63
Laser interstitial thermal therapy - lesion --Cont.
- lung 17.69
- prostate 17.69
- thyroid 17.62

Lash operation
- internal cervical os repair 67.59
- laparoscopic supravaginal hysterectomy 68.31

LASIK (Laser-assisted in situ keratomileusis) 11.71

Latko operation
- cesarean section 74.2
- colpocleisis 70.8

Lavage
- antral 22.00
- bronchus NEC 96.56
  - diagnostic (endoscopic) bronchoalveolar lavage (BAL) 33.24
- endotracheal 96.56
- gastric 96.33
- lung (total)(whole) 33.99
  - diagnostic (endoscopic) bronchoalveolar lavage (BAL) 33.24
- nasal sinus(es) 22.00
  - by puncture 22.01
  - through natural ostium 22.02
- peritoneal (diagnostic) 54.25
- trachea NEC 96.56

Leadbetter operation (urethral reconstruction) 58.46

Leadbetter-Politano operation (ureteroneocystostomy) 56.74

LEEP (loop electrosurgical excision procedure) of cervix 67.32

Le Fort operation (colpocleisis) 70.8

LeMesurier operation (cleft lip repair) 27.54

Lengthening
- bone (with bone graft) 78.30
  - femur 78.35
    - for reconstruction of thumb 82.69
      - specified site NEC --see also category 78.3, 78.39
    - tibia 78.37
    - ulna 78.33
  - extraocular muscle NEC 15.21
    - multiple (two or more muscles) 15.4
    - fascia 83.89
      - hand 82.89
  - hamstring NEC 83.85
  - heel cord 83.85
  - leg
    - femur 78.35
    - tibia 78.37
    - levator palpebrae muscle 08.38
    - muscle 83.85
      - extraocular 15.21
        - multiple (two or more muscles) 15.4
        - hand 82.55

Lengtening --Cont.
- palate 27.62
  - secondary or subsequent 27.63
- tendon 83.85
  - for claw toe repair 77.57
  - hand 82.55

Leriche operation (periarterial sympathectomy) 05.25

Leucotomy, leukotomy 01.32

Leukopheresis, therapeutic 99.72

Lid suture operation (blepharoptosis) 08.31

Ligation
- adrenal vessel (artery) (vein) 07.43
- appendages, dermal 86.26
- arteriovenous fistula 39.53
  - coronary artery 36.99
- artery 38.80
  - abdominal 38.86
  - adrenal 07.43
  - aorta (arch)(ascending)(descending) 38.84
  - coronary (anomalous) 36.99
  - ethmoidal 21.04
  - external carotid 21.06
  - for control of epistaxis--see Control, epistaxis
- head and neck NEC 38.82
  - intracranial NEC 38.81
  - lower limb 38.88
    - maxillary (transantral) 21.05
  - middle meningeal 02.13
  - thoracic NEC 38.85
  - thyroid 06.92
  - upper limb 38.83
    - atrium, heart 37.99
    - auricle, heart 37.99
    - bleeding vessel --see Control, hemorrhage
    - blood vessel 38.80
      - abdominal
        - artery 38.86
        - vein 38.87
      - adrenal 07.43
      - aorta (arch)(ascending)(descending) 38.84
      - esophagus 42.91
      - endoscopic 42.33
      - head and neck 38.82
      - intracranial NEC 38.81
      - lower limb
        - artery 38.88
        - vein 38.89
      - meningeal (artery) (longitudinal sinus) 02.13
      - thoracic NEC 38.85
      - thyroid 06.92
      - upper limb (artery) (vein) 38.83
      - bronchus 33.92
      - cisterna chyli 40.64
      - coronary
        - artery (anomalous) 36.99
        - sinus 36.39
Ligation—Cont.
dermal appendage 86.26
ductus arteriosus, patent 38.85
esophageal vessel 42.91
endoscopic 42.33
ethmoidal artery 21.04
external carotid artery 21.06
fallopian tube (bilateral) (remaining)
(solitary) 66.39
by endoscopy (culdoscopy) (hysteroscopy)
(laparoscopy) (peritoneoscopy) 66.29
with
    crushing 66.31
    by endoscopy (laparoscopy) 66.21
division 66.32
    by endoscopy (culdoscopy)
    (laparoscopy) (peritoneoscopy) 66.22
Falope ring 66.39
by endoscopy (laparoscopy) 66.29
unilateral 66.92
fistula, arteriovenous 39.53
coronary artery 36.99
gastric
    artery 38.86
    varices 44.91
    endoscopic 43.41
hemorrhoids 49.45
longitudinal sinus (superior) 02.13
lymphatic (channel) (peripheral) 40.9
    thoracic duct 40.64
maxillary artery 21.05
meningeal vessel 02.13
spermatic
cord 63.72
    varicocele 63.1
vein (high) 63.1
splenic vessels 38.86
subclavian artery 38.85
superior longitudinal sinus 02.13
supernumerary digit 86.26
thoracic duct 40.64
thyroid vessel (artery) (vein) 06.92
toes (supernumerary) 86.26
tooth 93.55
    impacted 24.6
ulcer (peptic) (base) (bed) (bleeding vessel)
    44.40
duodenal 44.42
gastric 44.41
ureter 56.95
varices
    esophageal 42.91
    endoscopic 42.33
gastric 44.91
    endoscopic 43.41
    peripheral vein (lower limb) 38.59
    upper limb 38.53
varicocele 63.1

Ligation—Cont.
vess deferens 63.71
vein 38.80
    abdominal 38.87
    adrenal 07.43
head and neck NEC 38.82
intracranial NEC 38.81
lower limb 38.89
    spermatic, high 63.1
thoracic NEC 38.85
thyroid 06.92
upper limb 38.83
varicose 38.50
    abdominal 38.57
    esophagus 42.91
    endoscopic 42.33
gastric 44.91
    endoscopic 43.41
head and neck 38.52
intracranial NEC 38.51
lower limb 38.59
stomach 44.91
thoracic NEC 38.55
upper limb 38.53
vena cava, inferior 38.7
venous connection between anomalous
    vein to
    left innominate vein 35.82
    superior vena cava 35.82
wart 86.26

Light coagulation—see Photocoagulation

Lindholm operation (repair of ruptured
tendon) 83.88

Linguectomy, lung 32.39
Linton operation (varicose vein) 38.59

Lipectomy (subcutaneous tissue)
(abdominal) (submental) 86.83

Liposuction 86.83

Lip reading training 95.49

Lip shave 27.43

Lisfranc operation
    foot amputation 84.12
    shoulder disarticulation 84.08

Litholapaxy, bladder 57.0
    by incision 57.19

Lithotomy
    bile passage 51.49
    bladder (urinary) 57.19
    common duct 51.41
    percutaneous 51.96
gallbladder 51.04
    hepatic duct 51.49
    kidney 55.01
    percutaneous 55.03
    ureter 56.2

Lithotripsy
    bile duct NEC 51.49
    extracorporeal shockwave(ESWL) 98.52
Lithotripsy ---Cont.
bladder 57.0
with ultrasonic fragmentation 57.0 [59.95]
extracorporeal shockwave (ESWL) 98.51
extracorporeal shockwave (ESWL) NEC 98.59
bile duct 98.52
bladder (urinary) 98.51
gallbladder 98.52
kidney 98.51
Kock pouch 98.51
renal pelvis 98.51
specified site NEC 98.59
ureter 98.51
gallbladder NEC 51.04
endoscopic 51.88
extracorporeal shockwave (ESWL) 98.52
kidney 56.0
extracorporeal shockwave (ESWL) 98.51
percutaneous nephrostomy with fragmentation (laser) (ultrasound) 55.04
renal pelvis 56.0
extracorporeal shockwave (ESWL) 98.51
percutaneous nephrostomy with fragmentation (laser) (ultrasound) 55.04
ureter 56.0
extracorporeal shockwave (ESWL) 98.51

LITT (laser interstitial thermal therapy)
under guidance
lesion
brain 17.61
breast 17.69
head and neck 17.62
liver 17.63
lung 17.69
prostate 17.69
thyroid 17.62

Littlewod operation (forequarter amputation) 84.09
LLETZ (large loop excision of the transformation zone) of cervix 67.32

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

Lobectomy ---Cont.
thyroid (total) (unilateral) (with removal of isthmus) (with removal of portion of remaining lobe) 06.2
partial --see also Thyroidectomy, partial 06.39
subternal 06.51
subtotal --see also Thyroidectomy, partial 06.39

Lobotomy, brain 01.32
Localization, placenta 88.78
by RISA injection 92.17

Longmire operation (bile duct anastomosis) 51.39

Loop ileal stoma (see also Ileostomy) 46.01
Loopogram 87.78
Looposcopy (ileal conduit) 56.35

Lord operation
dilation of anal canal for hemorrhoids 49.49
hemorrhoidectomy 49.49
orchidopexy 62.5

Lower GI series (x-ray) 87.64

Lucas and Murray operation
(knee arthrodesis with plate) 81.22

Lumpectomy
breast 85.21
specified site --see Excision, lesion, by site

Lymphadenectomy (simple) --see also Excision, lymph, node 40.29

Lymphadenotomy 40.0

Lymphangiectomy (radical) --see also Excision, lymph, node, by site, radical 40.50

Lymphangiogram
abdominal 88.04
cervical 87.08
intrathoracic 87.34
lower limb 88.36
pelvic 88.04
upper limb 88.34

Lymphangioplasty 40.9
Lymphangiorrhaphy 40.9

Lymphangiography

Lymphaticostomy 40.0

Lysis
adhesions
NOTE: blunt --omit code
digital --omit code
manual --omit code
mechanical --omit code
without instrumentation --omit code
abdominal 54.59
laparoscopic 54.51
appendiceal 54.59
laparoscopic 54.51
artery-vein-nerve bundle 39.91
biliary tract 54.59
laparoscopic 54.51
Lysis --adhesions --Cont.
- bladder (neck) (intraluminal) 57.12
  - external 59.11
  - laparoscopic 59.12
  - transurethral 57.41
- blood vessels 39.91
- bone --see category 78.4
- bursa 83.91
  - by stretching or manipulation 93.28
  - hand 82.91
- cartilage of joint 93.26
- chest wall 33.99
- choanae (nasopharynx) 29.54
- conjunctiva 10.5
- corneoivtreal 12.34
- cortical (brain) 02.91
- ear, middle 20.23
- Eustachian tube 20.8
- extraocular muscle 15.7
- extrauterine 65.89
  - laparoscopic 65.81
- eyelid 08.09
  - and conjunctiva 10.5
- eye muscle 15.7
- fallopian tube 65.89
  - laparoscopic 65.81
- fascia 83.91
  - hand 82.91
  - by stretching or manipulation 93.26
- gallbladder 54.59
  - laparoscopic 54.51
- ganglion (peripheral) NEC 04.49
- heart 37.10
  - intestines 54.59
  - laparoscopic 54.51
- iris (posterior) 12.33
  - anterior 12.32
- joint (capsule) (structure) --see also Division, joint capsule 80.40
- kidney 59.02
  - laparoscopic 59.03
- labia (vulva) 71.01
- larynx 31.92
- liver 54.59
  - laparoscopic 54.51
- lung (for collapse of lung) 33.39
- mediastinum 34.99
- meninges (spinal) 03.6
  - cortical 02.91
- middle ear 20.23
- muscle 83.91
  - by stretching or manipulation 93.27
  - extracloar 15.7
  - hand 82.91
  - by stretching or manipulation 93.26
- nasopharynx 29.54
- Lysis --adhesions --Cont.
  - nerve (peripheral) NEC 04.49
  - cranial NEC 04.42
  - roots, spinal 03.6
  - trigeminal 04.41
  - nose, nasal 21.91
  - ocular muscle 15.7
  - ovary 65.89
  - laparoscopic 65.81
  - pelvic 54.59
  - laparoscopic 54.51
  - penile 64.93
  - pericardium 37.12
  - perineal (female) 71.01
  - peripheral vessels 39.91
  - perirectal 48.81
  - perirenal 59.02
  - laparoscopic 59.03
  - peritoneum (pelvic) 54.59
  - laparoscopic 54.51
  - periureteral 59.02
  - laparoscopic 59.03
  - perivesical 59.11
  - laparoscopic 59.12
  - pharynx 29.54
  - pleura (for collapse of lung) 33.39
  - spermatic cord 63.94
  - spinal (cord)(meninges)(nerve roots) 03.6
  - spleen 54.59
  - laparoscopic 54.51
  - tendon 83.91
    - by stretching or manipulation 93.27
    - hand 82.91
    - by stretching or manipulation 93.26
  - thorax 34.99
  - tongue 25.93
  - trachea 31.92
  - tubo-ovarian 65.89
    - laparoscopic 65.81
  - ureter 59.02
    - with freeing or repositioning of ureter 59.02
    - intraluminal 56.81
    - laparoscopic 59.03
  - urethra (intraluminal) 58.5
  - uterus 54.59
  - intraluminal 68.21
  - laparoscopic 54.51
  - peritoneal 54.59
  - laparoscopic 54.51
  - vagina (intraluminal) 70.13
  - vitreous (posterior approach) 14.74
    - anterior approach 14.73
  - vulva 71.01
  - goniosynechiae (with injection of air or liquid) 12.31
  - synechiae (posterior) 12.33
    - anterior (with injection of air or liquid) 12.32
### M

**Madlener operation** (tubal ligation) 66.31

**Magnet extraction**
- foreign body
  - anterior chamber, eye 12.01
  - choroid 14.01
  - ciliary body 12.01
  - conjunctiva 98.22
  - cornea 11.0
  - eye, eyeball NEC 98.21
    - anterior segment 12.01
    - posterior segment 14.01
  - intraocular (anterior segment) 12.01
  - iris 12.01
  - lens 13.01
  - orbit 98.21
  - retina 14.01
  - sclera 12.01
  - vitreous 14.01

**Magnetic resonance imaging** (nuclear)
--see Imaging, magnetic resonance

**Magnuson (-Stack) operation** (arthroplasty for recurrent shoulder dislocation) 81.82

**Mako Tactile Guidance System™ [TGS]**
--see category 17.4

**Malleostapediopexy** 19.19
- with incus replacement 19.11

**Malström’s vacuum extraction** 72.79
- with episiotomy 72.71

**Mammoplasty** --see Mammoplasty

**Mammectomy** --see also Mastectomy
- subcutaneous (unilateral) 85.34
- bilateral 85.36
  - with synchronous implant 85.35

**Mammilliplasty** 85.87

**Mammography NEC** 87.37

**Mammoplasty** 85.89
- with
  - full-thickness graft 85.83
  - muscle flap 85.85
  - pedicle graft 85.84
  - split-thickness graft 85.82
  - amputative (reduction) (bilateral) 85.32
    - unilateral 85.31
  - augmentation 85.50
    - with
      - breast implant (bilateral) 85.54
        - unilateral 85.53
      - injection into breast (bilateral) 85.52
        - unilateral 85.51
  - reduction (bilateral) 85.32
    - unilateral 85.31
  - revision 85.89
- size reduction (gynecomastia) (bilateral) 85.32
  - unilateral 85.31

**Mammotomy** 85.0

**Manchester (-Donald) (-Fothergill) operation** (uterine suspension) 69.22

**Mandibulectomy** (partial) 76.31
- total 76.42
  - with reconstruction 76.41

**Maneuver** (method)
- Bracht 72.52
- Credé 73.59
- De Lee (key-in-lock) 72.4
- Kristeller 72.54
- Loveset’s (extraction of arms in breech birth) 72.52
- Mauriceau (-Smellie- Veit) 72.52
- Pinard (total breech extraction) 72.54
- Prague 72.52
- Ritgen 73.59
- Scanzoni (rotation) 72.4
- Van Hoorn 72.52
- Wigand-Martin 72.52

**Manipulation**
- with reduction of fracture or dislocation
  --see Reduction, fracture and
    - Reduction, dislocation
- enterostomy stoma (with dilation) 96.24
- intestine (intra-abdominal) 46.80
  - large 46.82
  - small 46.81
- joint
  - adhesions 93.26
  - temporomandibular 76.95
  - dislocation --see Reduction, dislocation
  - lacrimal passage (tract) NEC 09.49
  - muscle structures 93.27
  - musculoskeletal (physical therapy) NEC 93.29
  - nasal septum, displaced 21.88
  - osteopathic NEC 93.67
    - for general mobilization (general articulation) 93.61
      - high-velocity, low-amplitude forces (thrusting) 93.62
        - indirect forces 93.65
        - isotonic, isometric forces 93.64
        - low-velocity, high-amplitude forces (springing) 93.63
    - to move tissue fluids 93.66
  - rectum 96.22
  - salivary duct 26.91
  - stomach, intraoperative 44.92
  - temporomandibular joint NEC 76.95
  - ureteral calculus by catheter
    - with removal 56.0
    - without removal 59.8
Manipulation ---Cont.
uterus NEC 69.98
  gravid 75.99
  inverted
    manual replacement (following
delivery) 75.94
  surgical --see Repair, inverted uterus
Manometry
  esophageal 89.32
  spinal fluid 89.15
  urinary 89.21
Manual arts therapy 93.81
Mapping
  cardiac (electrophysiologic) 37.27
  doppler (flow) 88.72
  electrocardiogram only 89.52
Markwald operation (cervical os repair)
  67.59
Marshall-Marchetti (-Krantz) operation (retropubic urethral suspension) 59.5
Marsupialization --see also Destruction, lesion, by site
  cyst
    Bartholin's 71.23
      brain 01.59
      cervical (nabothian) 67.31
      dental 24.4
      dentigerous 24.4
      kidney 55.31
      larynx 30.01
      liver 50.21
      ovary 65.21
      laparoscopic 65.23
        pancreas 52.3
        pilonidal (open excision) (with partial
closure) 86.21
        salivary gland 26.21
        spinal (intraspinal) (meninges) 03.4
        spleen, splenic 41.41
  lesion
    brain 01.59
    cerebral 01.59
    liver 50.21
  pilonidal cyst or sinus (open excision)
    (with partial closure) 86.21
    pseudocyst, pancreas 52.3
    ranula, salivary gland 26.21
Massage
  cardiac (external) (manual) (closed) 99.63
    open 37.91
    prosthetic 99.94
  rectal (for levator spasm) 99.93
MAST (military anti- shock trousers) 93.58
Mastectomy (complete) (prophylactic)
  (simple) (unilateral) 85.41
  with
    excision of regional lymph nodes 85.43
    bilateral 85.44
  ---Cont.
  preservation of skin and nipple 85.34
    with synchronous implant 85.33
    bilateral 85.36
    with synchronous implant 85.35
    bilateral 85.42
    extended
      radical (Urban) (unilateral) 85.47
      bilateral 85.48
      simple (with regional lymphadenectomy)
        (unilateral) 85.43
        bilateral 85.44
      modified radical (unilateral) 85.43
        bilateral 85.44
        partial 85.23
      radical (Halsted) (Meyer) (unilateral) 85.45
        bilateral 85.46
        extended (Urban) (unilateral) 85.47
        bilateral 85.48
        modified (unilateral) 85.43
        bilateral 85.44
      subcutaneous 85.34
        with synchronous implant 85.33
        bilateral 85.36
        with synchronous implant 85.35
      subtotal 85.23
Masters' stress test (two-step) 89.42
Mastoidectomy (cortical)(conservative) 20.49
  complete (simple) 20.41
  modified radical 20.49
  radical 20.42
  modified 20.49
  simple (complete) 20.41
Mastoidotomy 20.21
Mastoidotympanectomy 20.42
Mastopexy 85.8
Mastoplasty --see Mammoplasty
Mastorrhaphy 85.81
Mastotomy 85.0
Matas operation (aneurysmorrhaphy) 39.52
Mayo operation
  bunioectomy 77.59
  herniorrhaphy
    laparoscopic 53.43
      with graft or prosthesis 53.42
      other and open with graft or prosthesis
        53.41
      other open 53.49
    vaginal hysterectomy 68.59
    laparoscopically assisted (LAVH) 68.51
Mazet operation (knee disarticulation) 84.16
McBride operation (bunioectomy with soft
tissue correction) 77.53
McBurney operation --see Repair, hernia,
inguinal
McCall operation (enterocele repair) 70.92
McCaulley operation (release of clubfoot) 83.84
McDonald operation (encirclement suture,
cervix) 67.59
ICD-9-CM INDEX TO PROCEDURES (FY10)

McIndoe operation (vaginal construction) 70.61
    with graft or prosthesis 70.63
Mckeever operation (fusion of first
    metatarsophalangeal joint for hallux
    valgus repair) 77.52
McKissock operation (breast reduction) 85.33
McReynolds operation (transposition of
    pterygium) 11.31
McVay operation
    femoral hernia --see Repair, hernia,femoral
    inguinal hernia --see Repair, hernia,inguinal
Measurement
    airway resistance 89.38
    anatomic NEC 89.39
    arterial blood gases 89.65
    basal metabolic rate (BMR) 89.39
    blood gases
        arterial 89.65
        continuous intra-arterial 89.60
        venous 89.66
    body 93.07
    cardiac output (by)
        Fick method 89.67
        indicator dilution technique 89.68
        oxygen consumption technique 89.67
        thermodilution indicator 89.68
    cardiovascular NEC 89.59
    central venous pressure 89.62
    coronary blood flow 89.69
    fractional flow reserve (FFR) 00.59
    intravascular pressure measurement
        00.59
    gastric function NEC 89.39
    girth 93.07
    intelligence 94.01
    intracranial pressure 01.10
    intraocular tension or pressure 89.11
    as part of extended ophthalmologic
        work- up 95.03
    intrauterine pressure 75.35
    intravascular pressure 00.69
    coronary 00.59
    iliac 00.69
    intra-abdominal 00.69
    intrathoracic 00.67
    aorta 00.67
    aortic arch 00.67
    carotid 00.67
    mesenteric 00.69
    peripheral 00.68
    renal 00.69
    limb length 93.06
    lung volume 89.37
    mixed venous blood gases 89.66
    physiologic NEC 89.39
    portovenous pressure 89.62
    pulmonary airway flow, endoscopic 33.72

Measurement --Cont.
    range of motion 93.05
    renal clearance 89.29
    respiratory NEC 89.38
    skin fold thickness 93.07
    skull circumference 93.07
    sphincter of Oddi pressure 51.15
    systemic arterial
        blood gases 89.65
        continuous intra-arterial 89.60
        pressure 89.61
    urine (bioassay) (chemistry) 89.29
    vascular 89.59
    venous blood gases 89.66
    vital capacity (pulmonary) 89.37
Meatoplasty
    ear 18.6
    urethra 58.47
Meatotomy
    ureter 56.1
    urethra 58.1
    internal 58.5
Mechanical ventilation --see Ventilation
Mediastinectomy 34.3
Mediastinoscopy 34.22
Mediastinotomy (Chamberlain procedure) 34.1
    with pneumonectomy 32.59
    thoracoscopic 32.50
Melo(plasty, facial 86.82
Meningeorrhaphy
    for meningocoele 03.51
    myelomeningocoele 03.52
Meniscectomy (knee) NEC 80.6
    acromioclavicular 80.91
    sternoclavicular 80.91
    temporomandibular (joint) 76.5
    wrist 80.93
Menstrual extraction or regulation 69.6
Mentoplasty (augmentation) (with graft)
    (with implant) 76.68
    reduction 76.67
Mesenterectomy 54.4
Mesenteriopexy 54.75
Mesenteriplication 54.75
Mesocoloplication 54.75
Mesopexy 54.75
Metatarsectomy 77.98
Metroplasty 69.49
Mid forceps delivery 72.29
Mikulicz operation (exteriorization of intestine)
    (first stage) 46.03
    second stage 46.04
Miles operation (proctectomy), NOS 48.50
    laparoscopic 48.51
    open 48.52
    other 48.59
Military anti-shock trousers (MAST) 93.58
Millard operation (cheiloplasty) 27.54
Miller operation
midtarsal arthrodesis 81.14
urethrovesical suspension 59.4
Millin-Read operation (urethrovesical suspension) 59.4
Mist therapy 93.94
Mitchell operation (hallux valgus repair) 77.51
Mobilization
joint NEC 93.16
mandible 76.95
neostrophiingic (mitral valve) 35.12
spine 93.15
stapes (transcrural) 19.0
testis in scrotum 62.5
Mohs operation (chemosurgical excision of skin) 86.24
Molegraphy 87.81
Monitoring
BIS (bispectral index) monitoring 00.94 [89.14]
brain temperature 01.17
cardiac output (by)
ambulatory (ACM) 89.50
electrographic 89.54
during surgery --omit code
Fick method 89.67
Holter-type device 89.50
indicator dilution technique 89.68
intracardiac or great vessel hemodynamic sensor (lead) 00.56
subcutaneous device 00.57
oxygen consumption technique 89.67
specified technique NEC 89.68
telemetry (cardiac) 89.54
thermodilution indicator 89.68
transesophageal (Doppler) 89.68
(ultrasound) 89.68
central venous pressure 89.62
circulatory NEC 89.69
continuous intra-arterial blood gas 89.60
coronary blood flow (coincidence counting technique) 89.69
fractional flow reserve (FFR) 00.59
intravascular pressure measurement 00.59
electroencephalographic 89.19
radio-telemetered 89.19
video 89.19
fetus (fetal heart) antepartum
nonstress (fetal activity acceleration determinations) 75.34
oxytocin challenge (contraction stress test) 75.35
ultrasonography (early pregnancy) (Doppler) 88.78
Monitoring - fetus --Cont.
intrapartum (during labor)
(extraterine) (external) 75.34
auscultatory (stethoscopy) --omit code
internal (with contraction measurements) (ECG) 75.32
intrauterine (direct) (ECG) 75.32
phonocardiographic (extraterine) 75.34
pulsed ultrasound (Doppler) 88.78
transcervical fetal oxygen saturation monitoring 75.38
transcervical fetal SpO2 monitoring 75.38
Holter-type device (cardiac) 89.50
IAEMT (intraoperative anesthetic effect monitoring and titration) 00.94 [89.14]
intra-aneurysm sac pressure 00.58
intracranial oxygen 01.16
intracranial pressure 01.10
intraoperative anesthetic effect monitoring and titration (IAEMT) 00.94 [89.14]
intravascular pressure 00.69
coronary 00.59
iliac 00.69
intra-abdominal 00.69
intrathoracic 00.67
aorta 00.67
aortic arch 00.67
carotid 00.67
mesenteric 00.69
peripheral 00.68
renal 00.69
neuropysiological
intra-operative 00.94
partial pressure of brain oxygen (PbtO2) 01.16
pulmonary artery pressure 89.63
wedge 89.64
sleep (recording) --see categories 89.17-89.18
systemic arterial pressure 89.61
intra-aneurysm sac pressure 00.58
telemetry (cardiac) 89.54
transesophageal cardiac output (Doppler) 89.68
ventricular pressure (cardiac) 89.62
Moore operation (arthroplasty) 81.52
Moschowitz
enterocoele repair 70.92
with graft or prosthesis 70.93
herniorrhaphy --see Repair, hernia, femoral sigmoidoïdopexy 46.63
Mountain resort sanitarium 93.98
Mouth-to-mouth resuscitation 93.93
Moxibustion 93.35
MRI --see Imaging, magnetic resonance
Muller operation (banding of pulmonary artery) 38.85
Multiple sleep latency test (MSLT) 89.18
<table>
<thead>
<tr>
<th>Term</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mumford operation (partial claviculectomy)</td>
<td>77.81</td>
</tr>
<tr>
<td>Musculoplasty --see also Repair, muscle</td>
<td>83.87</td>
</tr>
<tr>
<td>hand --see also Repair, muscle, hand</td>
<td>82.89</td>
</tr>
<tr>
<td>Music therapy</td>
<td>93.84</td>
</tr>
<tr>
<td>Mustard operation (interatrial transposition of venous return)</td>
<td>35.91</td>
</tr>
<tr>
<td>Myectomy</td>
<td>83.45</td>
</tr>
<tr>
<td>anorectal</td>
<td>48.92</td>
</tr>
<tr>
<td>eye muscle</td>
<td>15.13</td>
</tr>
<tr>
<td>multiple</td>
<td>15.3</td>
</tr>
<tr>
<td>for graft</td>
<td>83.43</td>
</tr>
<tr>
<td>hand</td>
<td>82.34</td>
</tr>
<tr>
<td>for graft</td>
<td>82.36</td>
</tr>
<tr>
<td>levator palpebrae</td>
<td>08.33</td>
</tr>
<tr>
<td>rectal</td>
<td>48.92</td>
</tr>
<tr>
<td>Myelogram, myelography (air) (gas)</td>
<td>87.21</td>
</tr>
<tr>
<td>posterior fossa</td>
<td>87.02</td>
</tr>
<tr>
<td>Myelotomy</td>
<td></td>
</tr>
<tr>
<td>spine, spinal (cord) (tract) (one-stage)</td>
<td>03.29</td>
</tr>
<tr>
<td>(two-stage)</td>
<td>03.21</td>
</tr>
<tr>
<td>Myocardectomy (infarcted area)</td>
<td>37.33</td>
</tr>
<tr>
<td>Myocardiotomy</td>
<td>37.11</td>
</tr>
<tr>
<td>Myocardiectomy (infarcted area)</td>
<td>37.33</td>
</tr>
<tr>
<td>Myocardiectomy</td>
<td>37.11</td>
</tr>
<tr>
<td>Myoclastic</td>
<td>83.99</td>
</tr>
<tr>
<td>hand</td>
<td>82.99</td>
</tr>
<tr>
<td>Myomectomy (uterine)</td>
<td>68.29</td>
</tr>
<tr>
<td>broad ligament</td>
<td>69.19</td>
</tr>
<tr>
<td>Myoplasty --see also Repair, muscle</td>
<td>83.87</td>
</tr>
<tr>
<td>hand --see also Repair, muscle, hand</td>
<td>82.89</td>
</tr>
<tr>
<td>mastoid</td>
<td>19.9</td>
</tr>
<tr>
<td>Myorrhaphy</td>
<td>83.65</td>
</tr>
<tr>
<td>hand</td>
<td>82.46</td>
</tr>
<tr>
<td>Myosuture</td>
<td>83.65</td>
</tr>
<tr>
<td>hand</td>
<td>82.46</td>
</tr>
<tr>
<td>Myotasis</td>
<td>93.27</td>
</tr>
<tr>
<td>Myotenontoplasty --see also Repair, tendon</td>
<td>83.88</td>
</tr>
<tr>
<td>hand</td>
<td>82.86</td>
</tr>
<tr>
<td>Myotenoplasty --see also Repair, tendon</td>
<td>83.88</td>
</tr>
<tr>
<td>hand</td>
<td>82.86</td>
</tr>
<tr>
<td>Myotenotomy</td>
<td>83.13</td>
</tr>
<tr>
<td>hand</td>
<td>82.11</td>
</tr>
<tr>
<td>Myotomy</td>
<td>83.02</td>
</tr>
<tr>
<td>with division</td>
<td>83.19</td>
</tr>
<tr>
<td>hand</td>
<td>82.19</td>
</tr>
<tr>
<td>colon NEC</td>
<td>46.92</td>
</tr>
<tr>
<td>sigmoid</td>
<td>46.91</td>
</tr>
<tr>
<td>cricopharyngeal</td>
<td>29.31</td>
</tr>
<tr>
<td>that for pharyngeal (pharyngoesophageal diverticulectomy</td>
<td>29.32</td>
</tr>
<tr>
<td>esophagus</td>
<td>42.7</td>
</tr>
<tr>
<td>eye (oblique) (rectus)</td>
<td>15.21</td>
</tr>
<tr>
<td>multiple (two or more muscles)</td>
<td>15.4</td>
</tr>
<tr>
<td>hand</td>
<td>82.02</td>
</tr>
<tr>
<td>with division</td>
<td>82.19</td>
</tr>
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<td>levator palpebrae</td>
<td>08.38</td>
</tr>
<tr>
<td>sigmoid (colon)</td>
<td>46.91</td>
</tr>
<tr>
<td>Myringectomy</td>
<td>20.59</td>
</tr>
<tr>
<td>Myringodecotomy</td>
<td>20.59</td>
</tr>
<tr>
<td>Myringomalleolabyrinthopexy</td>
<td>19.52</td>
</tr>
<tr>
<td>Myringoplasty (epitympanic, type I)</td>
<td></td>
</tr>
<tr>
<td>(by cauterization) (by graft)</td>
<td>19.4</td>
</tr>
<tr>
<td>revision</td>
<td>19.6</td>
</tr>
<tr>
<td>Myringostapediopexy</td>
<td>19.53</td>
</tr>
<tr>
<td>Myringostomy</td>
<td>20.01</td>
</tr>
<tr>
<td>Myringotomy (with aspiration) (with drainage)</td>
<td>20.09</td>
</tr>
<tr>
<td>with insertion of tube or drainage device (button) (grommet)</td>
<td>20.01</td>
</tr>
<tr>
<td>Procedure</td>
<td>Code</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
</tr>
<tr>
<td>Nailing, intramedullary with fracture reduction --see Reduction, fracture with internal fixation internal (without fracture reduction)</td>
<td>78.50</td>
</tr>
<tr>
<td>Narcoanalysis</td>
<td>94.21</td>
</tr>
<tr>
<td>Narcoresynthesis</td>
<td>94.21</td>
</tr>
<tr>
<td>Narrowing, palpebral fissure</td>
<td>08.51</td>
</tr>
<tr>
<td>Nasopharyngogram contrast</td>
<td>87.09</td>
</tr>
<tr>
<td>Necropsy</td>
<td>89.8</td>
</tr>
<tr>
<td>Needleoscopy (fetus)</td>
<td>75.31</td>
</tr>
<tr>
<td>Needling Bartholin's gland (cyst)</td>
<td>71.21</td>
</tr>
<tr>
<td>cataract (secondary)</td>
<td>13.64</td>
</tr>
<tr>
<td>fallopian tube</td>
<td>66.91</td>
</tr>
<tr>
<td>hydrocephalic head</td>
<td>73.8</td>
</tr>
<tr>
<td>lens (capsule)</td>
<td>13.2</td>
</tr>
<tr>
<td>pupillary membrane (iris)</td>
<td>12.35</td>
</tr>
<tr>
<td>Nephrectomy (complete) (total) (unilateral) bilateral</td>
<td>55.51</td>
</tr>
<tr>
<td>partial (wedge)</td>
<td>55.4</td>
</tr>
<tr>
<td>remaining or solitary kidney</td>
<td>55.52</td>
</tr>
<tr>
<td>removal transplanted kidney</td>
<td>55.53</td>
</tr>
<tr>
<td>Nephrocolopexy</td>
<td>55.7</td>
</tr>
<tr>
<td>Nephrocystanastomosis NEC</td>
<td>56.73</td>
</tr>
<tr>
<td>Nephrolithotomy</td>
<td>55.01</td>
</tr>
<tr>
<td>Nephrolysis</td>
<td>59.02</td>
</tr>
<tr>
<td>laparoscopic</td>
<td>59.03</td>
</tr>
<tr>
<td>Nephropexy</td>
<td>55.7</td>
</tr>
<tr>
<td>Nephroplasty</td>
<td>55.89</td>
</tr>
<tr>
<td>Nephroplasty (fetal)</td>
<td>55.87</td>
</tr>
<tr>
<td>Nephroplastyoureterostomy</td>
<td>55.86</td>
</tr>
<tr>
<td>Neurorrhaphy</td>
<td>55.81</td>
</tr>
<tr>
<td>Nephroscopy</td>
<td>55.21</td>
</tr>
<tr>
<td>Nephrostolithotomy, percutaneous</td>
<td>55.03</td>
</tr>
<tr>
<td>Nephrostomy (with drainage tube) closure</td>
<td>55.02</td>
</tr>
<tr>
<td>percutaneous</td>
<td>55.03</td>
</tr>
<tr>
<td>with fragmentation (ultrasound)</td>
<td>55.04</td>
</tr>
<tr>
<td>Nephrotomogram, nephrotomography NEC</td>
<td>87.72</td>
</tr>
<tr>
<td>Nephrotomy</td>
<td>55.01</td>
</tr>
<tr>
<td>Nephroureterectomy with bladder cuff</td>
<td>55.51</td>
</tr>
<tr>
<td>Nephroureterocystectomy</td>
<td>55.51 [57.79]</td>
</tr>
<tr>
<td>Nerve block (cranial) (peripheral) NEC --see also Block, by site</td>
<td>04.81</td>
</tr>
<tr>
<td>Neurectasis (cranial) (peripheral)</td>
<td>04.91</td>
</tr>
<tr>
<td>Neurectomy (cranial) (infraorbital) (occipital) (peripheral) (spinal) NEC</td>
<td>04.07</td>
</tr>
<tr>
<td>gastric (vagus)--see also Vagotomy</td>
<td>44.00</td>
</tr>
<tr>
<td>optociliary</td>
<td>12.79</td>
</tr>
<tr>
<td>paracervical</td>
<td>05.22</td>
</tr>
<tr>
<td>Neurectomy --Cont. presacral</td>
<td>05.24</td>
</tr>
<tr>
<td>retrogasserian</td>
<td>04.07</td>
</tr>
<tr>
<td>sympathetic --see Sympathectomy trigeminal</td>
<td>04.07</td>
</tr>
<tr>
<td>tympanic</td>
<td>20.91</td>
</tr>
<tr>
<td>Neurexeresis NEC</td>
<td>04.07</td>
</tr>
<tr>
<td>Neuroablation radiofrequency</td>
<td>04.2</td>
</tr>
<tr>
<td>Neuroanastomosis (cranial)(peripheral) NEC</td>
<td>04.74</td>
</tr>
<tr>
<td>accessory- facial</td>
<td>04.72</td>
</tr>
<tr>
<td>accessory- hypoglossal</td>
<td>04.73</td>
</tr>
<tr>
<td>hypoglossal- facial</td>
<td>04.71</td>
</tr>
<tr>
<td>Neurology (peripheral nerve) NEC</td>
<td>04.49</td>
</tr>
<tr>
<td>carpal tunnel</td>
<td>04.43</td>
</tr>
<tr>
<td>cranial nerve NEC</td>
<td>04.42</td>
</tr>
<tr>
<td>spinal (cord) (nerve roots)</td>
<td>03.6</td>
</tr>
<tr>
<td>tarsal tunnel</td>
<td>04.44</td>
</tr>
<tr>
<td>trigeminal nerve</td>
<td>04.41</td>
</tr>
<tr>
<td>Neuromonitoring intra- operative</td>
<td>00.94</td>
</tr>
<tr>
<td>Neuroplasty (cranial) (peripheral) NEC</td>
<td>04.79</td>
</tr>
<tr>
<td>of old injury (delayed repair)</td>
<td>04.76</td>
</tr>
<tr>
<td>revision</td>
<td>04.75</td>
</tr>
<tr>
<td>Neuorrhaphy (cranial) (peripheral)</td>
<td>04.3</td>
</tr>
<tr>
<td>Neurotomy (cranial)(peripheral)(spinal) NEC</td>
<td>04.04</td>
</tr>
<tr>
<td>acoustic</td>
<td>04.01</td>
</tr>
<tr>
<td>glossohypopharyngeal</td>
<td>29.92</td>
</tr>
<tr>
<td>lacrimal branch</td>
<td>05.0</td>
</tr>
<tr>
<td>retrogasserian</td>
<td>04.02</td>
</tr>
<tr>
<td>sympathetic</td>
<td>05.0</td>
</tr>
<tr>
<td>vestibular</td>
<td>04.01</td>
</tr>
<tr>
<td>Neurotripsy (peripheral) NEC</td>
<td>04.03</td>
</tr>
<tr>
<td>trigeminal</td>
<td>04.02</td>
</tr>
<tr>
<td>Nicola operation (tenodesis for recurrent dislocation of shoulder)</td>
<td>81.82</td>
</tr>
<tr>
<td>Nimodipine, infusion</td>
<td>99.75</td>
</tr>
<tr>
<td>NIPS (non- invasive programmed electrical stimulation)</td>
<td>37.20</td>
</tr>
<tr>
<td>Nissen operation (fundoplication of stomach)</td>
<td>44.66</td>
</tr>
<tr>
<td>laparoscopic</td>
<td>44.67</td>
</tr>
<tr>
<td>Noble operation (plication of small intestine)</td>
<td>46.62</td>
</tr>
<tr>
<td>Norman Miller operation (vaginopexy)</td>
<td>70.77</td>
</tr>
<tr>
<td>with graft or prosthesis</td>
<td>70.78</td>
</tr>
<tr>
<td>Norton operation (extraperitoneal cesarean section)</td>
<td>74.2</td>
</tr>
<tr>
<td>Nuclear magnetic resonance imaging --see Imaging, magnetic resonance</td>
<td></td>
</tr>
<tr>
<td>Nutrition, concentrated substances enteral infusion (of)</td>
<td>96.6</td>
</tr>
<tr>
<td>parenteral, (total)</td>
<td>99.15</td>
</tr>
<tr>
<td>peripheral parenteral</td>
<td>99.15</td>
</tr>
</tbody>
</table>
Ober (- Yount) operation (gluteal- iliotibial fasciotomy) 83.14

Obliteration
- bone cavity --see also Osteoplasty 78.40
- calyceal diverticulum 55.39
- canaliculi 09.6
- cerebrospinal fistula 02.12
- cul- de- sac 70.92
  - with graft or prosthesis 70.93
- frontal sinus (with fat) 22.42
- lacrimal punctum 09.91
- lumbar pseudomeningocele 03.51
- lymphatic structure(s) (peripheral) 40.9
- maxillary sinus 22.31
- meningocele (sacral) 03.51
- pelvic 68.8
- pleural cavity 34.6
- sacral meningocele 03.51
- Skene's gland 71.3
- tympanomastoid cavity 19.9
- vagina, vaginal (partial) (total) 70.4
- vault 70.8

Occlusal molds (dental) 89.31

Oclusion
  - artery
    - by embolization- see Embolization, artery
    - by endovascular approach
      --see Embolization, artery
    - by ligation --see Ligation, artery
  - vein
    - by embolization --see Embolization, vein
    - by endovascular approach
      - see Embolization, vein
    - by ligation --see Ligation, vein
  - vena cava (surgical) 38.7

Occupational therapy 93.83

OCT (optical coherence tomography)
  - (intravascular imaging)
  - coronary vessel(s) 38.24
  - non- coronary vessel(s) 38.25

O'Donoghue operation (triad knee repair) 81.43

Odontectomy NEC --see also Removal, tooth, surgical 23.19

Oleothorax 33.39

Olshausen operation (uterine suspension) 69.22

Omentectomy 54.4

Omentofixation 54.74

Omentoectomy 54.74

Omentoplasty 54.74

Omentorrhaphy 54.74

Omentotomy 54.19

Omiphalectomy 54.3

Onychectomy 86.23

Onychoplasty 86.86

Onychotomy 86.09
  - with drainage 86.04

Oophorectomy (unilateral) 65.39
  - with salpingectomy 65.49
    - laparoscopic 65.41
  - bilateral (same operative episode) 65.51
    - laparoscopic 65.53
    - with salpingectomy 65.61
      - laparoscopic 65.63
    - laparoscopic 65.31
  - partial 65.29
    - laparoscopic 65.25
    - wedge 65.22
      - that by laparoscope 65.24
    - remaining ovary 65.52
      - laparoscopic 65.54
      - with tube 65.62
        - laparoscopic 65.64
  - Oophorocystectomy 65.29
    - laparoscopic 65.25
  - Oophoropexy 65.79
  - Oophoroplasty 65.79
  - Oophororrhaphy 65.71
    - laparoscopic 65.74
  - Oophorostomy 65.09
    - laparoscopic 65.01
  - Oophorotomy 65.09
    - laparoscopic 65.01

Opening
  - bony labyrinth (ear) 20.79
  - cranial suture 02.01
  - heart valve
    - closed heart technique
      --see Valvulotomy, by site
    - open heart technique
      --see Valvuloplasty, by site
  - spinal dura 03.09

Operation
  - Abbe
    - construction of vagina 70.61
      - with graft or prosthesis 70.63
    - intestinal anastomosis
      --see Anastomosis, intestine
  - abdominal (region) NEC 54.99
  - abdominoperineal NOS 48.50
    - laparoscopic 48.51
    - open 48.52
    - other 48.59
  - Aburel (intra- amniotic injection for abortion) 75.0
  - Adams
    - advancement of round ligament 69.22
    - crushing of nasal septum 21.88
    - excision of palmar fascia 82.35
    - adenoids NEC 28.99
Operation ---Cont.

adrenal (gland) (nerve) (vessel) NEC 07.49
Albee
  bone peg, femoral neck 78.05
  graft for slipping patella 78.06
  sliding inlay graft, tibia 78.07
Albert (arthrodeseis, knee) 81.22
Aldridge (-Studdiford) (urethral sling) 59.5
Alexander
  prostatectomy perineal 60.62
  suprapubic 60.3
  shortening of round ligaments of uterus 69.22
Alexander-Adams (shortening of round ligaments of uterus) 69.22
Almoor (extrapetrosal drainage) 20.22
Altemeier (perineal rectal pull-through) 48.49
Ammon (dacryocystotomy) 09.53
Anderson (tibial lengthening) 78.37
Anel (dilation of lacrimal duct) 09.42
anterior chamber (eye) NEC 12.99
anti-incontinence NEC 59.79
antrum window (nasal sinus) 22.2
  with Caldwell-Luc approach 22.39
anus NEC 49.99
aortic body NEC 39.8
aorticopulmonary window 39.59
appendix NEC 47.99
Arslan (fenestration of inner ear) 20.61
artery NEC 39.99
Asai (larynx) 31.75
Baffes (interatrial transposition of venous return) 35.91
Baldy-Webster (uterine suspension) 69.22
Ball
  herniorrhaphy --see Repair, hernia, inguinal undercutting 49.02
  Bankhart (capsular repair into glenoid, for shoulder dislocation) 81.82
  Bardenheuerer (ligation of innominate artery) 38.85
Barkan (goniotomy) 12.52
  with gonipuncture 12.53
Barr (transfer of tibialis posterior tendon) 83.75
Barsky (closure of cleft hand) 82.82
Bassett (vulvectomy with inguinal lymph node dissection) 71.5 [40.3]
Bassini (herniorrhaphy) --see Repair, hernia, inguinal
  Batch-Spittler-McFaddin (knee disarticulation) 84.16
  Batista (partial ventriculectomy)(ventricular reduction)(ventricular remodeling) 37.35
  Beck I (epicardial poudrage) 36.39
  Beck II (aorta- coronary sinus shunt) 36.39
  Beck- Jianu (permanent gastrostomy) 43.19

Operation ---Cont.

Bell-Beuttnner (subtotal abdominal hysterectomy) 68.39
Belsey (esophagogastric sphincter) 44.65
Benenenti (rotation of bulbous urethra) 58.49
Berke (levator resection eyelid) 08.33
Biesenerger (size reduction of breast, bilateral) 85.32
  unilateral 85.31
Bigelow (litholapaxy) 57.0
biliary (duct) (tract) NEC 51.99
Billroth I (partial gastrectomy with gastroduodenostomy) 43.6
Billroth II (partial gastrectomy with gastrojejunostomy) 43.7
Binnie (hepatopexy) 50.69
Bischoff (ureteroneocystostomy) 56.74
bisection hysterectomy 68.39
laparoscopic 68.31
Bishoff (spinal myelotomy) 03.29
bladder NEC 57.99
  flap 56.74
Blaclock (systemic- pulmonary anastomosis) 39.0
Blalock-Hanlon (creation of atrial septal defect) 35.42
Blalock-Taussig (subclavian- pulmonary anastomosis) 39.0
Blascovic (resection and advancement of levator palpebrae superioris) 08.33
blood vessel NEC 39.99
Blount
  femoral shortening(with blade plate) 78.25
  by epiphyseal stapling 78.25
  Boar (bladder flap) 56.74
  Bobb (cholelithotomy) 51.04
  bone NEC --see category 78.4
  facial 76.99
  injury NEC --see category 79.9
  marrow NEC 41.98
  skull NEC 02.99
Bonney (abdominal hysterectomy) 68.49
laparoscopic 68.41
Borthen (iritodrosis) 12.63
Bost
  plantar dissection 80.48
  radiocarpal fusion 81.26
Bosworth
  arthroplasty for acromioclavicular separation 81.83
  fusion of posterior lumbar spine 81.08
  for pseudarthrosis 81.38
  resection of radial head ligaments (for tennis elbow) 80.92
  shelf procedure, hip 81.40
  Bottle (repair of hydrocele of tunica vaginalis) 61.2
  Boyd (hip disarticulation) 84.18
### ICD-9-CM INDEX TO PROCEDURES (FY10)

#### Operation ---Cont.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>brain NEC</td>
<td>02.99</td>
</tr>
<tr>
<td>Brauer (cardiolyis)</td>
<td>37.10</td>
</tr>
<tr>
<td>breast NEC</td>
<td>85.99</td>
</tr>
<tr>
<td>Bricker (ileoureterostomy)</td>
<td>56.51</td>
</tr>
<tr>
<td>Bristow (repair of shoulder dislocation)</td>
<td>81.82</td>
</tr>
<tr>
<td>Brock (pulmonary valvulotomy)</td>
<td>35.03</td>
</tr>
<tr>
<td>Brockman (soft tissue release for clubfoot)</td>
<td>83.84</td>
</tr>
<tr>
<td>bronchus NEC</td>
<td>33.98</td>
</tr>
<tr>
<td>Browne (-Denis)(hypospadias repair)</td>
<td>58.45</td>
</tr>
<tr>
<td>Brunswig (temporary gastrostomy)</td>
<td>43.19</td>
</tr>
<tr>
<td>buccal cavity NEC</td>
<td>27.99</td>
</tr>
<tr>
<td>Bunnell (tendon transfer)</td>
<td>82.56</td>
</tr>
<tr>
<td>Burch procedure (retropubic urethral suspension for urinary stress incontinence)</td>
<td>59.5</td>
</tr>
<tr>
<td>Burgess (amputation of ankle)</td>
<td>84.14</td>
</tr>
<tr>
<td>bursa NEC</td>
<td>83.99</td>
</tr>
<tr>
<td>hand</td>
<td>82.99</td>
</tr>
<tr>
<td>bypass --see Bypass</td>
<td></td>
</tr>
<tr>
<td>Caldwell (sulcus extension)</td>
<td>24.91</td>
</tr>
<tr>
<td>Caldwell-Luc (maxillary sinusotomy)</td>
<td>22.39</td>
</tr>
<tr>
<td>with removal of membrane lining</td>
<td>22.31</td>
</tr>
<tr>
<td>Callander (knee disarticulation)</td>
<td>84.16</td>
</tr>
<tr>
<td>Campbell</td>
<td></td>
</tr>
<tr>
<td>bone block, ankle</td>
<td>81.11</td>
</tr>
<tr>
<td>fasciotomy (iliac crest)</td>
<td>83.14</td>
</tr>
<tr>
<td>reconstruction of anterior cruciate ligaments</td>
<td>81.45</td>
</tr>
<tr>
<td>canthus NEC</td>
<td>08.99</td>
</tr>
<tr>
<td>cardiac NEC</td>
<td>37.99</td>
</tr>
<tr>
<td>septum NEC</td>
<td>35.98</td>
</tr>
<tr>
<td>valve NEC</td>
<td>35.99</td>
</tr>
<tr>
<td>carotid body or gland NEC</td>
<td>39.8</td>
</tr>
<tr>
<td>Carroll and Taber (arthroplasty proximal interphalangeal joint)</td>
<td>81.72</td>
</tr>
<tr>
<td>Cattell (herniorrhapathy)</td>
<td>53.51</td>
</tr>
<tr>
<td>Cecil (urethral reconstruction)</td>
<td>58.46</td>
</tr>
<tr>
<td>cecum NEC</td>
<td>46.99</td>
</tr>
<tr>
<td>cerebral (meninges) NEC</td>
<td>02.99</td>
</tr>
<tr>
<td>cervix NEC</td>
<td>69.99</td>
</tr>
<tr>
<td>Chandler (hip fusion)</td>
<td>81.21</td>
</tr>
<tr>
<td>Charles (correction of lymphedema)</td>
<td>40.9</td>
</tr>
<tr>
<td>Charnley (compression arthrodesis)</td>
<td></td>
</tr>
<tr>
<td>ankle</td>
<td>81.11</td>
</tr>
<tr>
<td>hip</td>
<td>81.21</td>
</tr>
<tr>
<td>knee</td>
<td>81.22</td>
</tr>
<tr>
<td>Cheatie-Henry --see Repair, hernia, femoral chest cavity NEC</td>
<td>34.99</td>
</tr>
<tr>
<td>Chevalier-Jackson (partial laryngectomy)</td>
<td>30.29</td>
</tr>
<tr>
<td>Child (radical subtotal pancreatectomy)</td>
<td>52.53</td>
</tr>
<tr>
<td>Chopart (midtarsal amputation)</td>
<td>84.12</td>
</tr>
<tr>
<td>chordae tendineae NEC</td>
<td>35.32</td>
</tr>
<tr>
<td>choroid NEC</td>
<td>14.9</td>
</tr>
<tr>
<td>ciliary body NEC</td>
<td>12.98</td>
</tr>
<tr>
<td>cisterna chyli NEC</td>
<td>40.69</td>
</tr>
<tr>
<td>Clagett (closure of chest wall following open flap drainage)</td>
<td>34.72</td>
</tr>
</tbody>
</table>

#### Operation ---Cont.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clayton (resection of metatarsal heads and bases of phalanges)</td>
<td>77.88</td>
</tr>
<tr>
<td>clitoris NEC</td>
<td>71.4</td>
</tr>
<tr>
<td>cocked hat (metacarpal lengthening and transfer of local flap)</td>
<td>82.69</td>
</tr>
<tr>
<td>Cockett (varicose vein)</td>
<td></td>
</tr>
<tr>
<td>lower limb</td>
<td>38.59</td>
</tr>
<tr>
<td>upper limb</td>
<td>38.53</td>
</tr>
<tr>
<td>Cody tuck (perforation of footplate)</td>
<td>19.0</td>
</tr>
<tr>
<td>Coffey (uterine suspension) (Meigs' modification)</td>
<td>69.22</td>
</tr>
<tr>
<td>Cole (anterior tarsal wedge osteotomy)</td>
<td>77.28</td>
</tr>
<tr>
<td>Collis- Nissen (hiatal wedge osteotomy)</td>
<td>53.80</td>
</tr>
<tr>
<td>colon NEC</td>
<td>46.99</td>
</tr>
<tr>
<td>Colonna</td>
<td></td>
</tr>
<tr>
<td>adductor tenotomy (first stage)</td>
<td>83.12</td>
</tr>
<tr>
<td>hip arthroplasty (second stage)</td>
<td>81.40</td>
</tr>
<tr>
<td>reconstruction of hip (second stage)</td>
<td>81.40</td>
</tr>
<tr>
<td>commando (radical glossectomy)</td>
<td>25.4</td>
</tr>
<tr>
<td>conjunctiva NEC</td>
<td>83.12</td>
</tr>
<tr>
<td>destructive NEC</td>
<td>10.33</td>
</tr>
<tr>
<td>cornea NEC</td>
<td>11.99</td>
</tr>
<tr>
<td>Coventry (tibial wedge osteotomy)</td>
<td>77.27</td>
</tr>
<tr>
<td>Cox-maze procedure (ablation or destruction of heart tissue) --see maze procedure</td>
<td></td>
</tr>
<tr>
<td>Crawford (tarso-frontalis sarr of eyelid)</td>
<td>08.32</td>
</tr>
<tr>
<td>cul-de-sac NEC</td>
<td>70.92</td>
</tr>
<tr>
<td>Culp-Dewerd (spiral flap pyeloplasty)</td>
<td>55.87</td>
</tr>
<tr>
<td>Culp-Scardino (ureteral flap pyeloplasty)</td>
<td>55.87</td>
</tr>
<tr>
<td>Curtis (interphalangeal joint arthroplasty)</td>
<td>81.72</td>
</tr>
<tr>
<td>cystocele NEC</td>
<td>70.51</td>
</tr>
<tr>
<td>Dahlman (excision of esophageal diverticulum)</td>
<td>42.31</td>
</tr>
<tr>
<td>Dana (posterior rhizotomy)</td>
<td>03.1</td>
</tr>
<tr>
<td>Danforth (fetal)</td>
<td>73.8</td>
</tr>
<tr>
<td>Darrach (ulnar resection)</td>
<td>77.83</td>
</tr>
<tr>
<td>Davis (intubated ureterotomy)</td>
<td>56.2</td>
</tr>
<tr>
<td>de Grandmont (tarsectomy)</td>
<td>08.35</td>
</tr>
<tr>
<td>Delorme</td>
<td></td>
</tr>
<tr>
<td>pericardietomy</td>
<td>37.31</td>
</tr>
<tr>
<td>proctopexy</td>
<td>48.76</td>
</tr>
<tr>
<td>repair of prolapsed rectum</td>
<td>48.76</td>
</tr>
<tr>
<td>thoracoplasty</td>
<td>33.34</td>
</tr>
<tr>
<td>Denker (radical maxillary antrotomy)</td>
<td>22.31</td>
</tr>
<tr>
<td>Dennis- Varco (herniorrhaphy) --see Repair, hernia, femoral</td>
<td></td>
</tr>
<tr>
<td>Denonvillier (limited rhinoplasty)</td>
<td>21.86</td>
</tr>
<tr>
<td>dental NEC</td>
<td>24.99</td>
</tr>
<tr>
<td>orthodontic NEC</td>
<td>24.8</td>
</tr>
<tr>
<td>Derlacki ( tympanoplasty)</td>
<td>19.4</td>
</tr>
</tbody>
</table>
**Operation ---Cont.**

- diaphragm NEC 34.89
- Dickson (fascial transplant) 83.82
- Dickson-Diveley (tendon transfer and arthrodesis to correct claw toe) 77.57
- Dieffenbach (hip disarticulation) 84.18
- digestive tract NEC 46.99
- Doleris (shortening of round ligaments) 69.22
- D’Ombrain (excision of pterygium with corneal graft) 11.32
- Dorrance (push-back operation for cleft palate) 27.62
- Dotter (transluminal angioplasty) 39.59
- Douglas (suture of tongue to lip for micrognathia) 25.59
- Doyle (paracervical uterine denervation) 69.3
- Dühamel (abdominoperineal pull-through) 48.65
- Duhrssen (vaginofixation of uterus) 69.22
- Dunn (triple arthrodesis) 81.12
- duodenum NEC 46.99
- Dupuytren
  - fasciectomy 82.35
  - fasciotomy 82.12
  - with excision 82.35
  - shoulder disarticulation 84.08
- Durham (-Caldwell) (transfer of biceps femoris tendon) 83.75
- DuToit and Roux (staple capsulorrhaphy of shoulder) 81.82
- DuVries (tenoplasty) 83.88
- Dwyer
  - fasciotomy 83.14
  - soft tissue release NEC 83.84
  - wedge osteotomy, calcaneus 77.28
- Eagleton (extrapetrosal drainage) 20.22
- ear (external) NEC 18.9
- middle or inner NEC 20.99
- Eden-Hybinette (glenoid bone block) 78.01
- Effler (heart) 36.2
- Eggers
  - tendon release(patellar retinacula) 83.13
  - tendon transfer (biceps femoris tendon) (hamstring tendon) 83.75
- Elliot(scleral trephination with iridectomy) 12.61
- Ellis Jones (repair of peroneal tendon) 83.88
- Ellison (reinforcement of collateral ligament) 81.44
- Elmslie-Cholmeley (tarsal wedge osteotomy) 77.28
- Eloesser
  - thoracoplasty 33.34
  - thoracostomy 34.09
- Emmet (cervix) 67.61
- endorectal pull-through 48.41
- epididymis NEC 63.99
- esophagus NEC 42.99

**Operation ---Cont.**

- Estes (ovary) 65.72
- Estlander (thoracoplasty) 33.34
- Evans (release of clubfoot) 83.84
- extracoracicular muscle NEC 15.9
  - multiple (two or more muscles) 15.4
  - with temporary detachment from globe 15.3
  - revision 15.6
  - single 15.29
  - with temporary detachment from globe 15.19
- eyeball NEC 16.99
- eyelid(s) NEC 08.99
- face NEC 27.99
- facial bone or joint NEC 76.99
- fallopian tube NEC 66.99
- Farabeuf (ischiopubiotomy) 77.39
- Fasanella-Servatt (blepharoptosis repair) 08.35
- fascia NEC 83.99
- hand 82.99
- female (genital organs) NEC 71.9
- hysterectomy NEC 68.9
- fenestration (aorta) 39.54
- Ferguson (hernia repair) 53.00
- Fick (perforation of footplate) 19.0
- filtering (for glaucoma) 12.79
- with iridectomy 12.65
- Finney (pyloroplasty) 44.29
- fistulizing, sclera NEC 12.69
- Foley (pyeloplasty) 55.87
- Fontan (creation of conduit between right atrium and pulmonary artery) 35.94
- Fothergill(-Donald) (uterine suspension) 69.22
- Fowler
  - arthroplasty of metacarpophalangeal joint 81.72
  - release (mallet finger repair) 82.84
  - tenodesis (hand) 82.85
  - thoracoplasty 33.34
- Fox (entropion repair with wedge resection) 08.43
- Franco (suprarenal cystotomy) 57.19
- Frank (permanent gastrostomy) 43.19
- Frazier (-Spiller) (subtemporal trigeminal rhizotomy) 04.02
- Fredet-Ramstedt (pyloromyotomy) (with wedge resection) 43.3
- Frenckner (extrapetrosal drainage) 20.22
- Frickman (abdominal proctopexy) 48.75
- Fromm (shortening of uterosacral ligaments) 69.22
Operation ---Cont.
Gabriel (abdominoperineal resection of rectum), NOS 48.50
laparoscopic 48.51
open 48.52
other 48.59
gallbladder NEC 51.99
ganglia NEC 04.99
  sympathetic 05.89
Gant (wedge osteotomy of trochanter) 77.25
Garceau (tibial tendon transfer) 83.75
Gardner (spinal meningocele repair) 03.51
gastric NEC 44.99
Gelman (release of clubfoot) 83.84
genital organ NEC
  female 71.9
  male 64.99
Ghormley (hip fusion) 81.21
Giffod
  destruction of lacrimal sac 09.6
  keratotomy (delimiting) 11.1
Gill
  arthrodesis of shoulder 81.23
  laminectomy 03.09
Gill-Stein (carporadial arthrodesis) 81.25
Gilliam (uterine suspension) 69.22
Girdlestone
  laminectomy with spinal fusion 81.00
  muscle transfer for claw toe 77.57
  resection of femoral head and neck
    (without insertion of joint prosthesis) 77.85
    with replacement prosthesis
      --see Implant, joint, hip
  resection of hip prosthesis 80.05
    with replacement prosthesis
      --see Implant, joint, hip
Girdlestone-Taylor (muscle transfer for claw toe repair) 77.57
glaucoma NEC 12.79
Glenn (anastomosis of superior vena cava to right pulmonary artery) 39.21
globus pallidus NEC 01.42
Goebel-Frangenheim-Stoeckel (urethrovesical suspension) 59.4
Goldner (clubfoot release) 80.48
Goldthwaite
  ankle stabilization 81.11
  patella stabilization 81.44
  tendon transfer for patella dislocation 81.44
Goodall-Power (vagina) 70.4
Gordon-Taylor (hindquarter amputation) 84.19
Graber-Duvernay (drilling femoral head) 77.15
Green (scapulopexy) 78.41
Grice (subtalar arthrodesis) 81.13
Gritti-Stokes (knee disarticulation) 84.16

Operation ---Cont.
Gross (herniorrhaphy)
  laparoscopic 53.43
    with graft or prosthesis 53.42
    other and open with graft or prosthesis 53.41
    other open 53.49
  gum NEC 24.39
Guyon (amputation of ankle) 84.13
Halsted --see Repair, hernia, inguinal
  mastectomy 85.45
Hampton (anastomosis hernia to rectal stump) 45.92
hanging hip (muscle release) 83.19
harelip 27.54
Harrison-Richardson (vaginal suspension) 70.77
  with graft or prosthesis 70.78
Hartmann --see Colectomy, by site
Hauser
  achillotenotomy 83.11
  bunionection with adductor tendon transfer 77.53
  stabilization of patella 81.44
Heaney (vaginal hysterectomy) 68.59
  laparoscopically assisted (LAVH) 68.51
heart NEC 37.99
  valve NEC 35.99
    adjacent structure NEC 35.39
Hegar (perineorrhaphy) 71.79
Heine (cycloidalysis) 12.55
Heineke-Mikulicz (pyloroplasty)
  --see category 44.2
Heller (esophagomyotomy) 42.7
Hellström (transplantation of aberrant renal vessel) 39.55
hemorrhoids NEC 49.49
Henley (jejunal transposition) 43.81
hepatic NEC 50.99
hernia --see Repair, hernia
Hey (amputation of foot) 84.12
Hey-Groves (reconstruction of anterior cruciate ligament) 81.45
Heyman (soft tissue release for clubfoot) 83.84
Heyman-Herndon (-Strong) (correction of metatarsus varus) 80.48
Hibbs (lumbar spinal fusion)
  --see Fusion, lumbar
Higgins --see Repair, hernia, femoral
Hill-Allison (hialtal hernia repair, transpleural approach) 53.80
Hitchcock (anchoring tendon of biceps) 83.88
Hofmeister (gastrectomy) 43.7
Hoke
  midtarsal fusion 81.14
  triple arthrodesis 81.12
### Operation ---Cont.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>ICD-9-CM Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holth</td>
<td>12.63, 12.65</td>
</tr>
<tr>
<td>iridencleisis (operation)</td>
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</tr>
<tr>
<td>sclerectomy (operation)</td>
<td></td>
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<tr>
<td>Homan (correction of lymphedema)</td>
<td>40.9</td>
</tr>
<tr>
<td>Hutch (ureteroneocystostomy)</td>
<td>56.74</td>
</tr>
<tr>
<td>Hybinette- eden (glenoid bone block)</td>
<td>78.01</td>
</tr>
<tr>
<td>hypopharynx NEC</td>
<td>29.99</td>
</tr>
<tr>
<td>hypophysis NEC</td>
<td>07.79</td>
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<tr>
<td>ileal loop</td>
<td>56.51</td>
</tr>
<tr>
<td>ileum NEC</td>
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<tr>
<td>intestine NEC</td>
<td>46.99</td>
</tr>
<tr>
<td>iris inclusion</td>
<td>12.63</td>
</tr>
<tr>
<td>Irving (tubal ligation)</td>
<td>66.32</td>
</tr>
<tr>
<td>Irwin --see also Osteotomy</td>
<td>77.30</td>
</tr>
<tr>
<td>Jaboulay (gastroduodenostomy)</td>
<td>44.39</td>
</tr>
<tr>
<td>laparoscopic</td>
<td></td>
</tr>
<tr>
<td>Janeway (permanent gastrostomy)</td>
<td>43.19</td>
</tr>
<tr>
<td>Jeatene (arterial switch)</td>
<td>35.84</td>
</tr>
<tr>
<td>jejunum NEC</td>
<td>46.99</td>
</tr>
<tr>
<td>Johanson (urethral reconstruction)</td>
<td>58.46</td>
</tr>
<tr>
<td>joint (capsule) (ligament) (structure) NEC</td>
<td>81.99</td>
</tr>
<tr>
<td>facial NEC</td>
<td>76.99</td>
</tr>
<tr>
<td>Jones</td>
<td></td>
</tr>
<tr>
<td>claw toe (transfer of extensor hallucis longus tendon)</td>
<td>77.57</td>
</tr>
<tr>
<td>modified (with arthrodesis)</td>
<td>77.57</td>
</tr>
<tr>
<td>dacyrocystorhinostomy</td>
<td>09.81</td>
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<tr>
<td>hammer toe (interphalangeal fusion)</td>
<td>77.56</td>
</tr>
<tr>
<td>modified (tendon transfer with arthrodesis)</td>
<td>77.57</td>
</tr>
<tr>
<td>repair of peroneal tendon</td>
<td>83.88</td>
</tr>
<tr>
<td>Joplin (exostectomy with tendon transfer)</td>
<td>77.53</td>
</tr>
<tr>
<td>Kader (temporary gastrostomy)</td>
<td>43.19</td>
</tr>
<tr>
<td>Kaufman (for urinary stress incontinence)</td>
<td>59.79</td>
</tr>
<tr>
<td>Kazanjian (buccal vestibular sulcus extension)</td>
<td>24.91</td>
</tr>
<tr>
<td>Kehr (hepatopexy)</td>
<td>50.69</td>
</tr>
<tr>
<td>Keller (bunionectomy)</td>
<td>77.59</td>
</tr>
<tr>
<td>Kelly (- Kennedy)(urethrovical plication)</td>
<td>59.3</td>
</tr>
<tr>
<td>Kelly-Stoeckel (urethrovesical plication)</td>
<td>59.3</td>
</tr>
<tr>
<td>Kerr (cesarean section)</td>
<td>74.1</td>
</tr>
<tr>
<td>Kessler (arthroplasty, carpopatamcarpal joint)</td>
<td>81.74</td>
</tr>
<tr>
<td>Kidner (excision of accessory navicular bone) (with tendon transfer)</td>
<td>77.98</td>
</tr>
<tr>
<td>kidney NEC</td>
<td>55.99</td>
</tr>
<tr>
<td>Killian (frontal sinusotomy)</td>
<td>22.41</td>
</tr>
<tr>
<td>King-Steelquist (hindquarter amputation)</td>
<td>84.19</td>
</tr>
<tr>
<td>Kirk (amputation through thigh)</td>
<td>84.17</td>
</tr>
</tbody>
</table>

### Operation ---Cont.

<table>
<thead>
<tr>
<th>Procedure</th>
<th>ICD-9-CM Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kock pouch</td>
<td></td>
</tr>
<tr>
<td>bowel anastomosis --omit code</td>
<td></td>
</tr>
<tr>
<td>continent ileostomy</td>
<td>46.22</td>
</tr>
<tr>
<td>cutaneous uretero- ileostomy</td>
<td>56.51</td>
</tr>
<tr>
<td>ESWL (electrocorporeal shockwave lithotripsy)</td>
<td>98.51</td>
</tr>
<tr>
<td>removal, calculus</td>
<td>57.19</td>
</tr>
<tr>
<td>revision, cutaneous uretero- ileostomy</td>
<td>56.52</td>
</tr>
<tr>
<td>urinary diversion procedure</td>
<td>56.51</td>
</tr>
<tr>
<td>Kondoleon (correction of lymphedema)</td>
<td>40.9</td>
</tr>
<tr>
<td>Krause (sympathetic denervation)</td>
<td>05.29</td>
</tr>
<tr>
<td>Kroener (partial salpingectomy)</td>
<td>66.69</td>
</tr>
<tr>
<td>Kroenlein (lateral orbitotomy)</td>
<td>16.01</td>
</tr>
<tr>
<td>Kronig (low cervical cesarean section)</td>
<td>74.1</td>
</tr>
<tr>
<td>Krukenberg (reconstruction of below- elbow amputation)</td>
<td>82.89</td>
</tr>
<tr>
<td>Kuhnt- Szymanowski (ectropion repair with lid reconstruction)</td>
<td>08.44</td>
</tr>
<tr>
<td>Labbe (gastrostomy)</td>
<td>43.0</td>
</tr>
<tr>
<td>labia NEC</td>
<td>71.8</td>
</tr>
<tr>
<td>lacrimal system NEC</td>
<td>09.99</td>
</tr>
<tr>
<td>Ladd (mobilization of intestine)</td>
<td>54.95</td>
</tr>
<tr>
<td>Lagrange (irdiosclerectomy)</td>
<td>12.65</td>
</tr>
<tr>
<td>Lambrinudi (triple arthrodesis)</td>
<td>81.12</td>
</tr>
<tr>
<td>Langenbeck (cleft palate repair)</td>
<td>27.62</td>
</tr>
<tr>
<td>Lapidus (bunionectomy with metatarsal osteotomy)</td>
<td>77.51</td>
</tr>
<tr>
<td>Larry (shoulder disarticulation)</td>
<td>84.08</td>
</tr>
<tr>
<td>larynx NEC</td>
<td>31.98</td>
</tr>
<tr>
<td>Lash</td>
<td></td>
</tr>
<tr>
<td>internal cervical os repair</td>
<td>67.59</td>
</tr>
<tr>
<td>laparoscopic supracervical hysterectomy</td>
<td>68.31</td>
</tr>
<tr>
<td>Latzko</td>
<td></td>
</tr>
<tr>
<td>cesarean section, extraperitoneal</td>
<td>74.2</td>
</tr>
<tr>
<td>colpocleisis</td>
<td>70.8</td>
</tr>
<tr>
<td>Leadbetter (urethral reconstruction)</td>
<td>58.46</td>
</tr>
<tr>
<td>Leadbetter- Politano</td>
<td></td>
</tr>
<tr>
<td>(ureteroneocystostomy)</td>
<td>56.74</td>
</tr>
<tr>
<td>Le Fort (colpocleisis)</td>
<td>70.8</td>
</tr>
<tr>
<td>LeMesurier (cleft lip repair)</td>
<td>27.54</td>
</tr>
<tr>
<td>lens NEC</td>
<td>13.90</td>
</tr>
<tr>
<td>Leriche (periarterial sympathectomy)</td>
<td>05.25</td>
</tr>
<tr>
<td>levator muscle sling</td>
<td></td>
</tr>
<tr>
<td>eyelid ptosis repair</td>
<td>08.33</td>
</tr>
<tr>
<td>urethrovetical suspension</td>
<td>59.71</td>
</tr>
<tr>
<td>urinary stress incontinence</td>
<td>59.71</td>
</tr>
<tr>
<td>lid suture (blepharoptosis)</td>
<td>08.31</td>
</tr>
<tr>
<td>ligament NEC</td>
<td>81.99</td>
</tr>
<tr>
<td>broad NEC</td>
<td>69.98</td>
</tr>
<tr>
<td>round NEC</td>
<td>69.98</td>
</tr>
<tr>
<td>uterine NEC</td>
<td>69.98</td>
</tr>
<tr>
<td>Lindholm (repair of ruptured tendon)</td>
<td>83.88</td>
</tr>
</tbody>
</table>
**Operation --Cont.**

Linton (varicose vein) 38.59
Lisfranc
- foot amputation 84.12
- shoulder disarticulation 84.08
Littlewood (forequarter amputation) 84.09
Liver NEC 50.99
Lloyd-Davies (abdominoperineal resection), NOS 48.50
- laparoscopic 48.51
- open 48.52
- other 48.59
Longmire (bile duct anastomosis) 51.39
Lord
- dilation of anal canal for hemorrhoids 49.49
- hemorrhoidectomy 49.49
- orchidopexy 62.5
Lucas and Murray (knee arthrodesis with plate) 81.22
Lung NEC 33.99
Lung volume reduction 32.22
- biologic lung volume reduction (BLVR) --see category 33.7
- lymphatic structure(s) NEC 40.9
- duct, left (thoracic) NEC 40.69
Madrener (tubal ligation) 66.31
Magnuson (-Stack) (arthroplasty for recurrent shoulder dislocation) 81.82
Male genital organs NEC 64.99
Manchester(-Donald)(-Fothergill)
- (uterine suspension) 69.22
Mandible NEC 76.99
- orthognathic 76.64
Markwald (cervical os repair) 67.59
Marshall-Marchetti-Krantz (retropubic urethral suspension) 59.5
Matas (aneurysmorrhaphy) 39.52
Mayo
- bunionectomy 77.59
- herniorrhaphy
- laparoscopic 53.43
- with graft or prosthesis 53.42
- other and open with graft or prosthesis 53.41
- other open 53.49
- vaginal hysterectomy 68.59
- laparoscopically assisted(LAVH) 68.51
Maze procedure (ablation or destruction of heart tissue)
- by incision (open) 37.33
- by peripherally inserted catheter 37.34
- endovascular approach 37.34
- trans-thoracic approach 37.33
Mazet (knee disarticulation) 84.16
McBride (bunioectomy with soft tissue correction) 77.53
McBurney --see Repair, hernia, inguinal

**Operation --Cont.**

McCall (enterocele repair) 70.92
- with graft or prosthesis 70.93
McCauley (release of clubfoot) 83.84
McDonald (encirclement suture, cervix) 67.59
McIndoe (vaginal construction) 70.61
- with graft or prosthesis 70.63
McKeever (fusion of first metatarsophalangeal joint for hallux valgus repair) 77.52
McKissock (breast reduction) 85.33
McReynolds (transposition of pterygium) 11.31
McVay
- femoral hernia
- --see Repair, hernia, femoral
- inguinal hernia
- --see Repair, hernia, inguinal
- meninges (spinal) NEC 03.99
- cerebral NEC 02.99
- mesentery NEC 54.99
Mikulicz (exteriorization of intestine)
- (first stage) 46.03
- second stage 46.04
Miles (complete proctectomy), NOS 48.50
- laparoscopic 48.51
- open 48.52
- other 48.59
Millard (cheiloplasty) 27.54
Miller
- midtarsal arthrodesis 81.14
- urethrostomical suspension 59.4
Millin-Read (urethrostomical suspension) 59.4
Mitchell (hallux valgus repair) 77.51
Mohs (chemosurgical excision of skin) 86.24
Moore (arthroplasty) 81.52
Moschowitz
- enterocele repair 70.92
- with graft or prosthesis 70.93
- herniorrhaphy --see Repair, hernia, femoral
- sigmoidopexy 46.63
- mouth NEC 27.99
Muller (banding of pulmonary artery) 38.85
Mumford (partial claviculectomy) 77.81
- muscle NEC 83.99
- extracocular --see Operation, extracocular
- hand NEC 82.99
- papillary heart NEC 35.31
- musculoskeletal system NEC 84.99
- Mustard (interatrial transposition of venous return) 35.91
- nail (finger) (toe) NEC 86.99
Operation   --Cont.
nasal sinus NEC 22.9
nasopharynx NEC 29.99
nerve (cranial) (peripheral) NEC 04.99
adrenal NEC 07.49
sympathetic NEC 05.89
nervous system NEC 05.9
Nicola (tenodesis for recurrent
dislocation of shoulder) 81.82
nipple NEC 85.99
Nissen (fundoplication of stomach) 44.66
laparoscopic 44.67
Noble (plication of small intestine) 46.62
node (lymph) NEC 40.9
Norman Miller (vaginopexy) 70.77
with graft or prosthesis 70.78
Norton(extraperitoneal cesarean operation) 74.2
nose, nasal NEC 21.99
sinus NEC 22.9
Ober(-Yount)(gluteal-iliotibial fasciotomy) 83.14
obstetric NEC 75.99
ocular NEC 16.99
muscle--see Operation, extraocular muscle
O'Donoghue (triad knee repair) 81.43
Olsghausen (uterine suspension) 69.22
omentum NEC 54.99
ophthalmologic NEC 16.99
oral cavity NEC 27.99
orbicularis muscle sling 08.36
orbit NEC 16.98
opharynx NEC 29.99
orthodontic NEC 24.8
orthognathic NEC 76.69
Oscar Miller (midtarsal arthrodesis) 81.14
Osmond-Clark (soft tissue release with
peroneus brevis tendon transfer) 83.75
ovary NEC 65.99
Oxford (for urinary incontinence) 59.4
palate NEC 27.99
palpebral ligament sling 08.36
Panas (linear proctotomy) 48.0
Pancoat (division of trigeminal nerve at
foramen ovale) 04.02
pancreas NEC 52.99
pantaloons(division of gastric anastomosis) 44.5
papillary muscle (heart) NEC 35.31
Paquin (ureteroneocystostomy) 56.74
parathyroid gland(s) NEC 06.99
parotid gland or duct NEC 26.99
Partsch (marsupialization of dental cyst) 24.4
Pattee (auditory canal) 18.6
Peet (splanchnic resection) 05.29
Pemberton
osteotomy of ilium 77.39
rectum (mobilization and fixation for
prolapse repair) 48.76

Operation   --Cont.
penis NEC 64.98
Pereyra (paraurethral suspension) 59.6
pericardium NEC 37.99
perineum (female) NEC 71.8
male NEC 86.99
perirectal tissue NEC 48.99
perirenal tissue NEC 59.92
periurethral tissue NEC 58.99
perivesical tissue NEC 59.92
pharyngeal flap (cleft palate repair) 27.62
secondary or subsequent 27.63
pharynx, pharyngeal (pouch) NEC 29.99
pineal gland NEC 07.59
Pinsker (obliteration of nasoseptal
telangiectasia) 21.07
Piper (forceps) 72.6
Pirogoff (ankle amputation through
malleoli of tibia and fibula) 84.14
pituitary gland NEC 07.79
plastic--see Repair, by site
pleural cavity NEC 34.99
Politano- Leadbetter
(ureteroneocystostomy) 56.74
pollicization (with nerves and blood
supply) 82.61
Polya (gastrectomy) 43.7
Pomeroy (ligation and division of
fallopian tubes) 66.32
Poncet
lengthening of Achilles tendon 83.85
urethrostomy, perineal 58.0
Porro (cesarean section) 74.99
posterior chamber (eye) NEC 14.9
Potts-Smith (descending aorta-left
pulmonary artery anastomosis) 39.0
Printen and Mason (high gastric bypass)
44.31
prostate NEC --see also Prostatectomy
60.69
specified type 60.99
pterygium 11.39
with corneal graft 11.32
Puestow (pancreaticeojunostomy) 52.96
pull-through NEC 48.49
pulmonary NEC 33.99
push-back (cleft palate repair) 27.62
Putti-Platt (capsulorrhaphy of shoulder
for recurrent dislocation) 81.82
pyloric exclusion 44.39
laparoscopic 44.38
pyriform sinus NEC 29.99
"rabbit ear" (anterior urethropexy)
(Tudor) 59.79
Ramadier (intraperatrosal drainage) 20.22
Ramstedt (pyloromyotomy) (with wedge
resection) 43.3
Operation --- Cont.

Rankin
- exteriorization of intestine 46.03
- proctectomy (complete), NOS 48.50
  - laparoscopic 48.51
  - open 48.52
  - other 48.59
- Rashkind (balloon septostomy) 35.41
- Rastelli (creation of conduit between right ventricle and pulmonary artery) 35.92
  - in repair of pulmonary artery atresia 35.92
  - transposition of great vessels 35.92
  - truncus arteriosus 35.83
- Raz - Pereyra procedure (bladder neck suspension) 59.79
- rectal NEC 48.99
- rectocele NEC 70.52
- re-entry (aorta) 39.54
- renal NEC 55.99
- respiratory (tract) NEC 33.99
- retina NEC 14.9
- Ripstein (repair of rectal prolapse) 48.75
- Rodney Smith (radical subtotal pancreatectomy) 52.53
- Roux- en- Y
  - bile duct 51.36
  - cholecystojejunostomy 51.32
  - esophagus (intrathoracic) 42.54
  - gastroenterostomy 44.39
    - laparoscopic 44.38
  - gastrojejunostomy 44.39
    - laparoscopic 44.38
  - pancreaticojejunostomy 52.96
- Roux- Goldthwait (repair of patellar dislocation) 61.44
- Roux- Herzen- Judine (jejunal loop interposition) 42.63
- Ruiz- Mora (proximal phalanectomy for hammer toe) 77.99
- Russe (bone graft of scaphoid) 78.04
- Saemisch (corneal section) 11.1
- salivary gland or duct NEC 26.99
- Salter (innominate osteotomy) 77.39
- Sauer- Bacon (abdominoperineal resection), NOS 48.50
  - laparoscopic 48.51
    - open 48.52
    - other 48.59
- Schanz (femoral osteotomy) 77.35
- Schauta (- Amreich) (radical vaginal hysterectomy) 68.79
- Schede (thoracoplasty) 33.34
- Scheie
  - cautery of sclera 12.62
  - sclerostomy 12.62
- Schlatter (total gastrectomy) 43.99
- Schroeder (endocervical excision) 67.39
- Schuchardt (nonobstetrical episiotomy) 71.09

Operation --- Cont.

- Schwartz (simple mastoidectomy) 20.41
- sclera NEC 12.89
- Scott
  - intestinal bypass for obesity 45.93
    - jejunocolostomy (bypass) 45.93
  - scrotum NEC 61.99
- Seddon- Brooks (transfer of pectoralis major tendon) 83.75
- Semb (apicoectomy of lung) 33.39
  - seminal vesicle NEC 60.79
- Senning (correction of transposition of great vessels) 35.91
- Sever (division of soft tissue of arm) 83.19
- Sewell (heart) 36.2
- sex transformation NEC 64.5
- Sharrard (iliopsoas muscle transfer) 83.77
  - shelf (hip arthroplasty) 81.40
- Shirodkar (encirclement suture, cervix) 67.59
- sigmoid NEC 46.99
- Silver (bunionectomy) 77.59
- Sistrunk (excision of thyroglossal cyst) 06.7
- Skene's gland NEC 71.8
- skin NEC 86.99
- skull NEC 02.99
- sling
  - eyelid
    - fascia lata, palpebral 08.36
    - frontalis fascial 08.32
  - levator muscle 08.33
  - orbicularis muscle 08.36
  - palpebral ligament, fascia lata 08.36
  - tarsus muscle 08.35
- fascial (fascia lata)
  - eye 08.32
  - for facial weakness (trigeminal nerve paralysis) 86.81
  - palpebral ligament 08.36
  - tongue 25.59
  - tongue (fascial) 25.59
  - urethra (suprapubic) 59.4
  - retropubic 59.5
  - urethrovesical 59.5
- Slocum (pes anserinus transfer) 81.47
- Sluder (tonsillectomy) 28.2
- Smith (open osteotomy of mandible) 76.62
- Smith- Peterson (radiocarpal arthrodesis) 81.25
- Smithwick (sympathectomy) 05.29
- Soave (endorectal pull- through) 48.41
- soft tissue NEC 83.99
  - hand 82.99
- Sonneberg (inferior maxillary neurectomy) 04.07
- Sorondo- Ferré (hindquarter amputation) 84.19
- Soutter (iliac crest fasciotomy) 83.14

396
Operation  --Cont.

Spalding- Richardson (uterine suspension) 69.22
spermatic cord NEC 63.99
spinchter of Oddi NEC 51.89
spinal (canal) (cord) (structures) NEC 03.99
Spinelli (correction of inverted uterus) 75.93
Spivack (permanent gastrostomy) 43.19
spinal (canal) (cord) (structures) NEC 03.99
Spivack (permanent gastrostomy) 43.19
S.R. Rogers (knee disarticulation) 84.16
Spivack (permanent gastrostomy) 43.19
Stallard (conjunctivocystorhinostomy) 09.82
with insertion of tube or stent 09.83
Steindler fascia stripping (for cavus deformity) 83.14
flexorplasty (elbow) 83.77
muscle transfer 83.77
sterilization NEC
female--see also specific operation 66.39
male--see also Ligation, vas deferens 63.70
Steinberg 44.5
Stewart (renal plication with pyeloplasty) 55.87
stomach NEC 44.99
Stone (anoplasty) 49.79
Strassman (metroplasty) 69.49
metroplasty (Jones modification) 69.49
uterus 68.22
Strayer (gastrocnemius recession) 83.72
stress incontinence --see Repair, stress incontinence
Stromeyer- Little (hepatotomy) 50.0
Strong (unbriding of celiac axis) 39.91
Sturmdorf (conization of cervix) 67.2
subcutaneous tissue NEC 86.99
sublingual gland or duct NEC 26.99
submaxillary gland or duct NEC 26.99
Summerskill (dacryocystorhinostomy by intubation) 09.81
Surnay (jejunostomy) 46.39
Swenson bladder reconstruction 57.87
proctectomy 48.49
Swinney (urethral reconstruction) 58.46
Syme
ankle amputation through malleoli of tibia and fibula 84.14
urethrotomy, external 58.0
sympathetic nerve NEC 05.89
Taarnhoj (trigeminal nerve root decompression) 04.41
Tack (sacculotomy) 20.79
Talma- Morison (omentopexy) 54.74
Tanner (devascularization of stomach) 44.99

Operation  --Cont.

TAPVC NEC 35.82
tarsus NEC 08.99
muscle sling 08.35
tendon NEC 83.99
extraocular NEC 15.9
hand NEC 82.99
testis NEC 62.99
tetralogy of Fallot
  partial repair --see specific procedure
  total (one-stage) 35.81
Thal (repair of esophageal stricture) 42.85
thalamus 01.41
by stereotactic radiosurgery 92.32
  cobalt 60 92.32
  linear accelerator (LINAC) 92.31
  multi-source 92.32
  particle beam 92.33
  particulate 92.33
  radiosurgery NEC 92.39
  single source photon 92.31
Thiersch
  anus 49.79
  skin graft 86.69
  hand 86.62
Thompson
  cleft lip repair 27.54
  correction of lymphedema 40.9
  quadricepsplasty 83.86
  thumb apposition with bone graft 82.69
thoracic duct NEC 40.69
thorax NEC 34.99
Thorek (partial cholecystectomy) 51.21
three- spindle, punctum 09.51
thymus NEC 07.99
thoracoscopic, NEC 07.98
thyroid gland NEC 06.98
TKP (thermokeratoplasty) 11.74
Tomkins (metroplasty) 69.49
tongue NEC 25.99
  flap, palate 27.62
  tie 25.91
tonsil NEC 28.99
Torek (- Bevan) (orchidopexy) (first stage)
  (second stage) 62.5
torkildsen (ventriculocisternal shunt) 02.2
Torpin (cure- de- sac resection) 70.92
Toti (dacryocystorhinostomy) 09.81
Touchas 86.83
Tourouff (ligation of subclavian artery) 38.85
trabeculae corneae cordis (heart) NEC 35.35
trachea NEC 31.99
Trauner (lingual sulcus extension) 24.91
truncus arteriosus NEC 35.83
Tsuge (macroductyly repair) 82.83
Tudor “rabbit ear” (anterior urethropexy) 59.79
ICD-9-CM INDEX TO PROCEDURES (FY10)

Operation ---Cont.

Tuffier
- apicolyis of lung 33.39
- vaginal hysterectomy 68.59
  laparoscopically assisted (LAVH) 68.51
- tunica vaginalis NEC 61.99
- Turco (release of joint capsules in clubfoot) 80.48
- Uchida (tubal ligation with or without fimbriectomy) 66.32
- umbilicus NEC 54.99
- urachus NEC 57.51
- Urban (mastectomy) (unilateral) 85.47
  bilateral 85.48
- ureter NEC 56.99
- urethra NEC 58.99
- urinary system NEC 59.99
- uterus NEC 69.99
  supporting structures NEC 69.98
- uvula NEC 27.79
- vagina NEC 70.91
- vascular NEC 39.99
- vas deferens NEC 63.99
  ligation NEC 63.71
- vein NEC 39.99
- vena cava sieve 38.7
- vertebra NEC 78.49
- vesical (bladder) NEC 57.99
- vessel NEC 39.99
  cardiac NEC 36.99
- Vicq d’Azyr (larynx) 31.1
- Vidal (varicocele ligation) 63.1
- Vineberg (implantation of mammary artery into ventricle) 36.2
- vitreous NEC 14.79
- vocal cord NEC 31.98
- von Kraske (proctectomy) 48.64
- Voss (hanging hip operation) 83.19
- Vulpian (-Compere) (lengthening of gastrocnemius muscle) 83.85
- vulva NEC 71.8
- Ward-Mayo (vaginal hysterectomy) 68.59
  laparoscopically assisted (LAVH) 68.51
- Wardill (cleft palate) 27.62
- Waters (extraperitoneal cesarean section) 74.2
- Waterston (aorta-right pulmonary artery anastomosis) 39.0
- Watkins (-Wertheim) (uterus interposition) 69.21
- Watson-Jones
  - hip arthrodesis 81.21
  - reconstruction of lateral ligaments, ankle 81.49
  - shoulder arthrodesis(extra-articular) 81.23
  - tenoplasty 83.88
- Weir
  appendicostomy 47.91
  correction of nostrils 21.86

Operation ---Cont.

Wertheim (radical hysterectomy) 68.69
  laparoscopic 68.61
- West (dacryocystorhinostomy) 09.81
- Wheeler
  - entropion repair 08.44
  - halving procedure (eyelid) 08.24
- Whipple (radical pancreaticoduodenectomy) 52.7
- Child modification (radical subtotal pancreatectomy) 52.53
- Rodney Smith modification (radical subtotal pancreatectomy) 52.53
- Whitehead
  - (lengthening of tendo calcaneus by incomplete tenotomy) 83.11
- Whitman
  - foot stabilization (talectomy) 77.98
  - hip reconstruction 81.40
  - repair of serratus anterior muscle 83.87
  - talectomy 77.98
  - trochanter wedge osteotomy 77.25
- Wer (entropion repair) 08.44
- Williams-Richardson (vaginal construction) 70.61
  with graft or prosthesis 70.63
- Wilms (thoracoplasty) 33.34
- Wilson (anguification osteotomy for hallux valgus) 77.51
  window
  - antrum (nasal sinus) --see Antrotomy, maxillary
  - aorticopulmonary 39.59
  - bone cortex--see also Incision, bone
    - facial 76.09
  - nasoantral --see Antrotomy, maxillary
  - pericardium 37.12
  - pleural 34.09
- Winiwarter (cholecystoenterostomy) 51.32
- Witzel (temporary gastrostomy) 43.19
- Woodward (release of high riding scapula) 81.83
- Young
  - epispadias repair 58.45
  - tendon transfer (anterior tibialis)
    (repair of flat foot) 83.75
- Yount (division of iliotibial band) 83.14
- Zancolli
  - capsuloplasty 81.72
  - tendon transfer (biceps) 82.56
- Ziegler (iridectomy) 12.14

Oparecucleotomy 24.6
Ophthalmectomy 16.49
  with implant (into Tenon’s capsule) 16.42
  with attachment of muscles 16.41
Ophthalmoscopy 16.21
Opponensplasty (hand) 82.56
Optical coherence tomography (OCT) (intravascular imaging)
coronary vessel(s) 38.24
non-coronary vessel(s) 38.25
Orbitomaxillectomy, radical 16.51
Orbitotomy (anterior) (frontal)
(temporofrontal) (transfrontal) NEC 16.09
with
bone flap 16.01
insertion of implant 16.02
Kroenlein (lateral) 16.01
lateral 16.01
Orchidectomy (with epididymectomy)
(unilateral) 62.3
bilateral (radical) 62.41
remaining or solitary testis 62.42
Orchidopexy 62.5
Orchidoplasty 62.69
Orchidorrhaphy 62.61
Orchidotomy 62.0

Osteoarthrotomy
--see also Osteotomy 77.30
Osteoclasis 78.70
carpal, metacarpal 78.74
clavicle 78.71
ear 20.79
femur 78.75
fibula 78.77
humerus 78.72
patella 78.76
pelvic 78.79
phalanges (foot) (hand) 78.79
radius 78.73
scapula 78.71
specified site NEC 78.79
tarsal, metatarsal 78.78
thorax (ribs) (sternum) 78.71
tibia 78.77
ulna 78.73
vertebrae 78.79

Osteolysis --see category 78.4

Osteoplasty NEC --see category 78.4
Osteopathic manipulation --see also
Manipulation, osteopathic 93.67

Osteoplasty NEC --see category 78.4
with bone graft --see Graft, bone for
bone lengthening--see Lengthening,bone
bone shortening --see Shortening, bone
repair of malunion or nonunion of fracture
--see Repair, fracture, malunion or nonunion
carpal, metacarpal 78.44
clavicle 78.41
cranium NEC 02.06
with
flap (bone) 02.03
graft (bone) 02.04
facial bone NEC 76.69
femur 78.45
fibula 78.47
humerus 78.42
mandible, mandibular NEC 76.64
body 76.63
ramus (open) 76.62
closed 76.61
maxilla (segmental) 76.65
total 76.66
nasal bones 21.89
patella 78.46
pelvic 78.49
phalanges (foot) (hand) 78.49
radius 78.43
scapula 78.41
skull NEC 02.06
with
flap (bone) 02.03
graft (bone) 02.04
specified site NEC 78.49
tarsal, metatarsal 78.48
<table>
<thead>
<tr>
<th>Osteoplasty NEC --Cont.</th>
<th>Osteotony --Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>thorax (ribs) (sternum) 78.41</td>
<td>tibia 77.37</td>
</tr>
<tr>
<td>tibia 78.47</td>
<td>wedge 77.27</td>
</tr>
<tr>
<td>ulna 78.43</td>
<td>toe 77.39</td>
</tr>
<tr>
<td>vertebrae 78.49</td>
<td>for repair of</td>
</tr>
<tr>
<td><strong>Osteorrhaphy</strong> --see also Osteoplasty 78.40</td>
<td>bunion --see Bunionectomy</td>
</tr>
<tr>
<td><strong>Osteosynthesis</strong> (fracture) --see Reduction, fracture</td>
<td>bunionette 77.54</td>
</tr>
<tr>
<td><strong>Osteotomy</strong> (adduction) (angulation) (block)</td>
<td>hallux valgus --see Bunionectomy</td>
</tr>
<tr>
<td>(derotational) (displacement) (partial) (rotational) 77.30</td>
<td>wedge 77.29</td>
</tr>
<tr>
<td>carpals, metacarpals 77.34</td>
<td>for repair of</td>
</tr>
<tr>
<td>wedge 77.24</td>
<td>bunion --see Bunionectomy</td>
</tr>
<tr>
<td>clavicle 77.31</td>
<td>bunionette 77.54</td>
</tr>
<tr>
<td>wedge 77.21</td>
<td>hallux valgus --see Bunionectomy</td>
</tr>
<tr>
<td>facial bone NEC 76.69</td>
<td>wedge 77.29</td>
</tr>
<tr>
<td>femur 77.35</td>
<td>for repair of</td>
</tr>
<tr>
<td>wedge 77.25</td>
<td>bunion --see Bunionectomy</td>
</tr>
<tr>
<td>fibula 77.37</td>
<td>bunionette 77.54</td>
</tr>
<tr>
<td>wedge 77.27</td>
<td>hallux valgus --see Bunionectomy</td>
</tr>
<tr>
<td>humerus 77.32</td>
<td>ulna 77.33</td>
</tr>
<tr>
<td>wedge 77.22</td>
<td>wedge 77.23</td>
</tr>
<tr>
<td>mandible (segmental) (subapical) 76.64</td>
<td>vertebrae 77.39</td>
</tr>
<tr>
<td>angle (open) 76.62</td>
<td>wedge 77.29</td>
</tr>
<tr>
<td>closed 76.61</td>
<td><strong>Otonecrectomy</strong> (inner ear) 20.79</td>
</tr>
<tr>
<td>body 76.63</td>
<td><strong>Otoplasty</strong> (external) 18.79</td>
</tr>
<tr>
<td>Gigli saw 76.61</td>
<td>auditory canal or meatus 18.6</td>
</tr>
<tr>
<td>ramus (open) 76.62</td>
<td>auricle 18.79</td>
</tr>
<tr>
<td>closed 76.61</td>
<td>cartilage 18.79</td>
</tr>
<tr>
<td>maxilla (segmental) 76.65</td>
<td>reconstruction 18.71</td>
</tr>
<tr>
<td>total 76.66</td>
<td>prominent or protruding 18.5</td>
</tr>
<tr>
<td>metatarsal 77.38</td>
<td><strong>Otoscropy</strong> 18.11</td>
</tr>
<tr>
<td>wedge 77.28</td>
<td><strong>Outfolding, sclera, for buckling</strong> --see also</td>
</tr>
<tr>
<td>for hallux valgus repair 77.51</td>
<td>Buckling, scleral 14.49</td>
</tr>
<tr>
<td>patella 77.36</td>
<td><strong>Outfracture, turbinates</strong> (nasal) 21.62</td>
</tr>
<tr>
<td>wedge 77.26</td>
<td><strong>Output and clearance, circulatory</strong> 92.05</td>
</tr>
<tr>
<td>pelvic 77.39</td>
<td><strong>Overdistension, bladder</strong> (therapeutic) 96.25</td>
</tr>
<tr>
<td>wedge 77.29</td>
<td><strong>Overlapping, sclera, for buckling</strong></td>
</tr>
<tr>
<td><strong>phalanges (foot) (hand)</strong> 77.39</td>
<td>--see also Buckling, scleral 14.49</td>
</tr>
<tr>
<td>for repair of</td>
<td><strong>Oversewing</strong></td>
</tr>
<tr>
<td>bunion --see Bunionectomy</td>
<td>left atrial appendage (LAA) 37.36</td>
</tr>
<tr>
<td>bunionette 77.54</td>
<td>pleural bleb 32.21</td>
</tr>
<tr>
<td>hallux valgus --see Bunionectomy</td>
<td>ulcer crater (peptic) 44.40</td>
</tr>
<tr>
<td>wedge 77.29</td>
<td>duodenum 44.42</td>
</tr>
<tr>
<td>for repair of</td>
<td>stomach 44.41</td>
</tr>
<tr>
<td>bunion --see Bunionectomy</td>
<td><strong>Oxford operation</strong> (for urinary incontinence) 59.4</td>
</tr>
<tr>
<td>bunionette 77.54</td>
<td><strong>Oximetry</strong></td>
</tr>
<tr>
<td>hallux valgus --see Bunionectomy</td>
<td>fetal pulse 75.38</td>
</tr>
<tr>
<td>wedge 77.29</td>
<td><strong>Oxygenation</strong> 93.96</td>
</tr>
<tr>
<td>for repair of</td>
<td>extracorporeal membrane (ECMO) 39.65</td>
</tr>
<tr>
<td>bunion --see Bunionectomy</td>
<td>hyperbaric 93.95</td>
</tr>
<tr>
<td>bunionette 77.54</td>
<td>wound 93.59</td>
</tr>
<tr>
<td>hallux valgus --see Bunionectomy</td>
<td>infusion therapy, Super 00.49</td>
</tr>
<tr>
<td>radius 77.33</td>
<td><strong>Oxygen therapy</strong> (catalytic) (pump) 93.96</td>
</tr>
<tr>
<td>wedge 77.23</td>
<td>hyperbaric 93.95</td>
</tr>
<tr>
<td>scapula 77.31</td>
<td>SuperSaturated 00.49</td>
</tr>
<tr>
<td>wedge 77.21</td>
<td><strong>Oximetry</strong></td>
</tr>
<tr>
<td>specified site NEC 77.39</td>
<td><strong>fetal pulse</strong> 75.38</td>
</tr>
<tr>
<td>wedge 77.29</td>
<td><strong>Oxygenation</strong> 93.96</td>
</tr>
<tr>
<td>tarsal 77.38</td>
<td>extracorporeal membrane (ECMO) 39.65</td>
</tr>
<tr>
<td>wedge 77.28</td>
<td>hyperbaric 93.95</td>
</tr>
<tr>
<td>thorax (ribs) (sternum) 77.31</td>
<td>SuperSaturated 00.49</td>
</tr>
<tr>
<td>wedge 77.21</td>
<td><strong>Oximetry</strong></td>
</tr>
</tbody>
</table>

400
Pacemaker
- see also Insertion, pacemaker, cardiac
  - intraoperative (temporary) 39.64
  - temporary (during and immediately following cardiac surgery) 39.64

Packing - see also Insertion, pack
  - auditory canal 96.11
  - nose, for epistaxis (anterior) 21.01
  - posterior (and anterior) 21.02
  - rectal 96.19
  - sella turcica 07.79
  - vaginal 96.14

Palatoplasty 27.69
- for cleft palate 27.62
- secondary or subsequent 27.63

Palatopharynx 27.61
- for cleft palate 27.62
- secondary or subsequent 27.63

Palidectomy 01.42

Palilidontoectomy 01.42

Palilidotomy 01.42
- by stereotactic radiosurgery 92.32
  - cobalt 60 92.32
  - linear accelerator (LINAC) 92.31
  - multi-source 92.32
  - particle beam 92.33
  - particulate 92.33
  - radiosurgery NEC 92.39
  - single source photon 92.31

Panas operation (linear proctotomy) 48.0

Pancoast operation (division of trigeminal nerve at foramen ovale) 04.02

Pancreatectomy (total) (with synchronous duodenectomy) 52.6
- partial NEC 52.59
  - distal (tail) (with part of body) 52.52
  - proximal (head) (with part of body) (with synchronous duodenectomy) 52.51
  - radical 52.53
  - subtotal 52.53
  - radical 52.7
  - subtotal 52.53

Pancreaticoduodenectomy 52.4

Pancreatocystoduodenostomy 52.4

Pancreatocystoenterostomy 52.4

Pancreatocystogastrostomy 52.4

Pancreatocystojejunostomy 52.4

Pancreatoduodenectomy (total) 52.6
- partial NEC 52.59
  - radical (one-stage) (two-stage) 52.7
  - subtotal 52.53

Panreatoduodenectomy 52.6
- partial NEC 52.59
  - radical (one-stage) (two-stage) 52.7
  - subtotal 52.53

Panreatolithotomy 52.09
- endoscopic 52.94

Panreatotomy 52.09

Pancreulithotomy 52.09
- endoscopic 52.94

Panendoscopy 57.32
- specified site, other than bladder
  - see Endoscopy, by site
  - through artificial stoma 57.31

Panhypertectomy (abdominal) 68.49
- laparoscopic 68.41
  - vaginal 68.59
  - laparoscopically assisted (LAVH) 68.51

Pannicalectomy 86.83

Panniculotomy 86.83

Pantaloone operation (revision of gastric anastomosis) 44.5

Papillectomy, anal 49.39
- endoscopic 49.31

Papillotomy (pancreas) 51.82
- endoscopic 51.85

Paquin operation (ureteroneocystostomy) 56.74

Paracentesis
- abdominal (percutaneous) 54.91
  - anterior chamber, eye 12.91
  - bladder 57.11
  - cornea 12.91
  - eye (anterior chamber) 12.91
  - thoracic, thoracis 34.91
  - tympanum 20.09
  - with intubation 20.01

Parasitology - see Examination, microscopic

Parathyroidectomy (partial)(subtotal)NEC 06.89
- complete 06.81
- ectopic 06.89
- global removal 06.81
- mediastinal 06.89
- total 06.81

Parenteral nutrition, total 99.15
- peripheral 99.15

Parotidecomy (parotidectomy) 26.30
- complete 26.32
- partial 26.31
- radical 26.32

Partsch operation (marsupialization of dental cyst) 24.4

Passage - see Insertion and Intubation

Passage of sounds, urethra 58.6
Patch
  blood, spinal (epidural) 03.95
  graft --see Graft
  spinal, blood (epidural) 03.95
  subdural, brain 02.12
Patellapexy 78.46
Patellaplasty NEC 78.46
Patellectomy 77.96
  partial 77.86
Pattee operation (auditory canal) 18.6
PDT (percutaneous dilatational tracheostomy) --see Tracheostomy
Pectenotomy --see also Sphincterotomy, anal 49.59
Pedicle flap --see Graft, skin, pedicle
Peet operation (splanchnic resection) 05.29
PEG (percutaneous endoscopic gastrostomy) 43.11
PEJ (percutaneous endoscopic jejunostomy) 46.32
PEGJJ (percutaneous [endoscopic] gastrojejunostomy) 44.32
Pelvectomy, kidney
  (partial) 55.4
Pelvimetry 88.25
  gynecological 89.26
Pelviolithotomy 55.11
Pelvioplasty, kidney 55
Pelviostomy 55.12
  closure 55.82
Pelviotomy 77.39
  to assist delivery 73.94
Pelvi-ureteroplasty 55.87
Pemberton operation
  osteotomy of ilium 77.39
  rectum (mobilitation and fixation for prolapse repair) 48.76
Penectomy 64.3
Pereyra operation (paraurethral suspension) 59.6
Perforation
  stapes footplate 19.0
Perfusion NEC 39.97
  carotid artery 39.97
  coronary artery 39.97
  for
  chemotherapy NEC 99.25
  hormone therapy NEC 99.24
  head 39.97
  hyperthermic (lymphatic), localized region or site 93.35
  intestine (large) (local) 46.96
  small 46.95
  kidney, local 55.95
  limb (lower) (upper) 39.97
  liver, localized 50.93
  neck 39.97
  subarachnoid (spinal cord) (refrigerated saline) 03.92
  total body 39.96
Pericardiectomy 37.31
Pericardiocentesis 37.0
Pericardiolysis 37.12
Pericardioplasty 37.49
Pericardiorrhaphy 37.49
Pericardiotomy (tube) 37.12
Pericardiomyotomy 37.12
Peridectomy 10.31
Perilimbal suction 89.11
Perimetry 95.05
Perineoplasty 71.79
Perineorrhaphy 71.71
  obstetrical laceration (current) 75.69
  nonobstetrical) 71.09
  to assist delivery --see Episiotomy
Periosteotomy--see also Incision, bone 77.10
  facial bone 76.09
Perirectofistulectomy 48.93
Periteneotomy 10.31
Peritonitis 10.1
Peritoneumectomy 54.4
Phacoemulsification (ultrasonic) (with aspiration) 13.41
Phacoemulsification (mechanical) (with aspiration) 13.43
  posterior route 13.42
  ultrasonic 13.41
Phalangectomy (partial) 77.89
  claw toe 77.57
  cockup toe 77.58
  hammer toe 77.56
  overlapping toe 77.58
  total 77.99
Phalangization (fifth metacarpal) 82.81
Pharyngal flap operation (cleft palate repair) 27.62
  secondary or subsequent 27.63
Pharyngectomy (partial) 29.33
  with laryngectomy 30.3
Pharyngogram 87.09
  contrast 87.06
Pharyngolaryngectomy 30.3
Pharyngoplasty (with silastic implant) 29.4
  for cleft palate 27.62
  secondary or subsequent 27.63
Pharyngorrhaphy 29.51
  for cleft palate 27.62
Pharyngoscopy 29.11
Pharyngotomy 29.0
Phenopeel (skin) 86.24
Philectomy 38.60
  with
  anastomosis 38.30
  abdominal 38.37
  head and neck NEC 38.32
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phlebectomy - with anastomosis---Cont.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>intracranial NEC</td>
<td>38.31</td>
<td></td>
</tr>
<tr>
<td>lower limb</td>
<td>38.39</td>
<td></td>
</tr>
<tr>
<td>thoracic NEC</td>
<td>38.35</td>
<td></td>
</tr>
<tr>
<td>upper limb</td>
<td>38.33</td>
<td></td>
</tr>
<tr>
<td>graft replacement</td>
<td>38.40</td>
<td></td>
</tr>
<tr>
<td>abdominal</td>
<td>38.47</td>
<td></td>
</tr>
<tr>
<td>head and neck NEC</td>
<td>38.42</td>
<td></td>
</tr>
<tr>
<td>intracranial NEC</td>
<td>38.41</td>
<td></td>
</tr>
<tr>
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<td>38.49</td>
<td></td>
</tr>
<tr>
<td>thoracic NEC</td>
<td>38.45</td>
<td></td>
</tr>
<tr>
<td>upper limb</td>
<td>38.43</td>
<td></td>
</tr>
<tr>
<td>abdominal</td>
<td>38.67</td>
<td></td>
</tr>
<tr>
<td>head and neck NEC</td>
<td>38.62</td>
<td></td>
</tr>
<tr>
<td>intracranial NEC</td>
<td>38.61</td>
<td></td>
</tr>
<tr>
<td>lower limb</td>
<td>38.69</td>
<td></td>
</tr>
<tr>
<td>thoracic NEC</td>
<td>38.65</td>
<td></td>
</tr>
<tr>
<td>upper limb</td>
<td>38.63</td>
<td></td>
</tr>
<tr>
<td>varicose</td>
<td>38.50</td>
<td></td>
</tr>
<tr>
<td>abdominal</td>
<td>38.57</td>
<td></td>
</tr>
<tr>
<td>head and neck NEC</td>
<td>38.52</td>
<td></td>
</tr>
<tr>
<td>intracranial NEC</td>
<td>38.51</td>
<td></td>
</tr>
<tr>
<td>lower limb</td>
<td>38.59</td>
<td></td>
</tr>
<tr>
<td>thoracic NEC</td>
<td>38.55</td>
<td></td>
</tr>
<tr>
<td>upper limb</td>
<td>38.53</td>
<td></td>
</tr>
<tr>
<td>Phlebogoniostomy</td>
<td>12.52</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phlebography (contrast) (retrograde)</td>
<td>88.60</td>
<td>by radioisotope --see Scan, radioisotope, by site</td>
</tr>
<tr>
<td>adrenal</td>
<td>88.65</td>
<td></td>
</tr>
<tr>
<td>femoral</td>
<td>88.66</td>
<td></td>
</tr>
<tr>
<td>head</td>
<td>88.61</td>
<td></td>
</tr>
<tr>
<td>hepatic</td>
<td>88.64</td>
<td></td>
</tr>
<tr>
<td>impedance</td>
<td>88.68</td>
<td></td>
</tr>
<tr>
<td>intra- abdominal NEC</td>
<td>88.65</td>
<td></td>
</tr>
<tr>
<td>intrathoracic NEC</td>
<td>88.63</td>
<td></td>
</tr>
<tr>
<td>lower extremity NEC</td>
<td>88.66</td>
<td></td>
</tr>
<tr>
<td>neck</td>
<td>88.61</td>
<td></td>
</tr>
<tr>
<td>portal system</td>
<td>88.64</td>
<td></td>
</tr>
<tr>
<td>pulmonary</td>
<td>88.62</td>
<td></td>
</tr>
<tr>
<td>specified site NEC</td>
<td>88.67</td>
<td></td>
</tr>
<tr>
<td>vena cava (inferior) (superior)</td>
<td>88.51</td>
<td></td>
</tr>
<tr>
<td>Phleborrhaphy</td>
<td>39.32</td>
<td></td>
</tr>
<tr>
<td>Phlebotomy</td>
<td>38.99</td>
<td></td>
</tr>
<tr>
<td>Phonocardiogram, with ECG lead</td>
<td>89.55</td>
<td>extracorporeal 99.88</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photocoagulation -retina- --Cont.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>laser (beam)</td>
<td></td>
<td>for</td>
</tr>
<tr>
<td>destruction of lesion</td>
<td>14.24</td>
<td></td>
</tr>
<tr>
<td>reattachment</td>
<td>14.54</td>
<td></td>
</tr>
<tr>
<td>repair of tear or defect</td>
<td>14.34</td>
<td></td>
</tr>
<tr>
<td>xenon arc</td>
<td></td>
<td>for</td>
</tr>
<tr>
<td>destruction of lesion</td>
<td>14.23</td>
<td></td>
</tr>
<tr>
<td>reattachment</td>
<td>14.53</td>
<td></td>
</tr>
<tr>
<td>repair of tear or defect</td>
<td>14.33</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photography</td>
<td>89.39</td>
<td>fundus 95.11</td>
</tr>
<tr>
<td>Photopheresis, therapeutic</td>
<td>99.88</td>
<td></td>
</tr>
<tr>
<td>Phototherapy NEC</td>
<td>99.83</td>
<td>newborn 99.83</td>
</tr>
<tr>
<td>ultraviolet</td>
<td>99.82</td>
<td></td>
</tr>
<tr>
<td>Phrenemphraxis</td>
<td>04.03</td>
<td>for collapse of lung 33.31</td>
</tr>
<tr>
<td>Phrenicectomy</td>
<td>04.03</td>
<td>for collapse of lung 33.31</td>
</tr>
<tr>
<td>Phrenicoexeresis</td>
<td>04.03</td>
<td>for collapse of lung 33.31</td>
</tr>
<tr>
<td>Phrenicotripsy</td>
<td>04.03</td>
<td>for collapse of lung 33.31</td>
</tr>
<tr>
<td>Phrenoplasty</td>
<td>34.84</td>
<td></td>
</tr>
<tr>
<td>Physical medicine --see Therapy, physical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical therapy --see Therapy, physical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physiotherapy, chest</td>
<td>93.99</td>
<td></td>
</tr>
<tr>
<td>PICC (peripherally inserted central catheter)</td>
<td>38.93</td>
<td></td>
</tr>
<tr>
<td>Piercing ear, external (pinna)</td>
<td>18.01</td>
<td></td>
</tr>
<tr>
<td>Pigmenting, skin</td>
<td>86.02</td>
<td></td>
</tr>
<tr>
<td>Plication (aneurysm) (Gallagher)</td>
<td>39.52</td>
<td></td>
</tr>
<tr>
<td>Pinealectomy (complete) (total)</td>
<td>07.54</td>
<td>partial 07.53</td>
</tr>
<tr>
<td>Pinealotomy (with drainage)</td>
<td>07.52</td>
<td></td>
</tr>
<tr>
<td>Pinning</td>
<td>bone --see Fixation, bone, internal ear 18.5</td>
<td></td>
</tr>
<tr>
<td>Pinsker operation (obliteration of nasoseptal telangiectasia)</td>
<td>21.07</td>
<td></td>
</tr>
<tr>
<td>Piper operation (forceps)</td>
<td>72.6</td>
<td></td>
</tr>
<tr>
<td>Pirogoff operation (ankle amputation through malleoli of tibia and fibula)</td>
<td>84.14</td>
<td></td>
</tr>
<tr>
<td>Pituitectomy (complete) (total) --see also Hypophysectomy</td>
<td>07.69</td>
<td></td>
</tr>
<tr>
<td>Placentogram, placentography</td>
<td>88.46</td>
<td>with radioisotope (RISA) 92.17</td>
</tr>
<tr>
<td>Plasma exchange</td>
<td>99.07</td>
<td></td>
</tr>
<tr>
<td>Plasmapheresis, therapeutic</td>
<td>99.71</td>
<td></td>
</tr>
<tr>
<td>Plastic repair --see Repair, by site</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Plasty --see also Repair, by site
bladder neck (V-Y) 57.85
skin (without graft) 86.89
subcutaneous tissue 86.89
Platelet inhibitor (GP IIb/IIIa inhibitor only), infusion 99.20
Plateletpheresis, therapeutic 99.74
Play
psychotherapy 94.36
therapy 93.81
Pleating
eye muscle 15.22
  multiple (two or more muscles) 15.4
sclera, for buckling --see also Buckling, scleral 14.49
Plethysmogram (carotid) 89.58
  air-filled (pneumatic) 89.58
  capacitance 89.58
  cerebral 89.58
  differential 89.58
  oculoplethysmogram 89.58
penile 89.58
photoelectric 89.58
  regional 89.58
  respiratory function measurement (body) 89.38
  segmental 89.58
  strain-gauge 89.58
  thoracic impedance 89.38
  venous occlusion 89.58
  water-filled 89.58
Plethysmography
  CaverMap™ 89.58
penile 89.58
Pleurectomy NEC 34.59
Pleurocentesis 34.91
Pleurodesis 34.6
chemical 34.92
  with cancer chemotherapy substance 34.92 [99.25]
  tetracycline 34.92 [99.21]
Pleurolysis (for collapse of lung) 33.39
Pleurepexy 34.99
Pleurosclerosis 34.6
chemical 34.92
  with cancer chemotherapy substance 34.92 [99.25]
  tetracycline 34.92 [99.21]
Pleurotomy 34.09
Plexectomy
choroid 02.14
hypogastric 05.24
Plication
aneurysm
  heart 37.32
  annulus, heart valve 35.33
bleb (emphysematous), lung 32.21
  broad ligament 69.22
Plication--Cont.
diaphragm (for hernia repair)(thoracic approach) (thoracoabdominal approach) 53.81
eye muscle (oblique) (rectus) 15.22
  multiple (two or more muscles) 15.4
fascia 83.89
  hand 82.89
inferior vena cava 38.7
intestine (jejunum) (Noble) 46.62
Kelly(-Stoeckel) (urethrovesical junction) 59.3
levator, for blepharoplasty 08.34
ligament --see also Arthroplasty 81.96
  broad 69.22
  round 69.22
  uterosacral 69.22
mesentery 54.75
  round ligament 69.22
sphincter, urinary bladder 57.85
stomach 44.69
  laparoscopic 44.68
superior vena cava 38.7
  hand 82.55
  tricuspid valve (with repositioning) 35.14
ureter 56.89
urethra 58.49
urethrovessical junction 59.3
vein (peripheral) 39.59
  vena cava (inferior) (superior) 38.7
ventricle (heart) aneurysm 37.32
Plicotomy, tympanum 20.23
Plombage, lung 33.39
Pneumocentesis 33.93
Pneumocisternogram 87.02
Pneumoencephalogram 87.01
Pneumogram, pneumography
  extraperitoneal 88.15
  mediastinal 87.33
  orbit 87.14
  pelvic 88.13
  peritoneum NEC 88.13
  presacral 88.15
  retroperitoneum 88.15
Pneumogynecography 87.82
Pneumomediastinography 87.33
Pneumonecnectomy (complete) (extended)
  (radical) (standard) (total) (with mediastinal dissection) 32.59
  partial
  complete excision, one lobe 32.49
  resection (wedge), one lobe 32.39
  thoracoscopic 32.50
Pneumonolysis (for collapse of lung) 33.39
Pneumonotomy (with exploration) 33.1
Pneumoperitoneum(surgically-induced) 54.96
  for collapse of lung 33.33
  pelvic 88.12
Pneumothorax (artificial) (surgical) 33.32
intrapleural 33.32
Pneumoventriculogram 87.02
Politano- Leadbetter operation
(ureteroneocystostomy) 56.74
Politization, Eustachian tube 20.8
Pollicization (with carry over of nerves and blood supply) 82.61
Polya operation (gastrectomy) 43.7
Polypectomy--see also Excision, lesion, by site
esophageal 42.32
endoscopic 42.33
gastric (endoscopic) 43.41
large intestine (colon) 45.42
nasal 21.31
rectum (endoscopic) 48.36
Polysomnogram 89.17
Pomeroy operation (ligation and division of fallopian tubes) 66.32
Poncet operation
lengthening of Achilles tendon 83.85
urethrostomy, perineal 58.0
Porro operation (cesarean section) 74.99
Portoenterostomy (Kasai) 51.37
Positron emission tomography (PET)--see Scan, radioisotope
Postmortem examination 89.8
Potts-Smith operation (descending aorta-left pulmonary artery anastomosis) 39.0
Poudrage
intrapericardial 36.39
pleural 34.6
PPN (peripheral parenteral nutrition) 99.15
Preparation (cutting), pedicle (flap) graft 86.71
Preputiotomy 64.91
Prescription for glasses 95.31
Pressurized
graft treatment 00.16
Printen and Mason operation (high gastric bypass) 44.31
Probing
canaliculus, lacrimal (with irrigation) 09.42
lacrimal
canalici 09.42
punctum (with irrigation) 09.41
nasolacrimal duct (with irrigation) 09.43
with insertion of tube or stent 09.44
salivary duct (for dilation of duct) (for removal of calculus) 26.91
with incision 26.0
Procedure --see also specific procedure
diagnostic NEC
abdomen (region) 54.29
adenoid 28.19
adrenal gland 07.19
alveolus 24.19
amnion 75.35
anterior chamber, eye 12.29
anus 49.29
appendix 45.28
biliary tract 51.19
bladder 57.39
blood vessel (any site) 38.29
bone 78.80
carpal, metacarpal 78.84
clavicle 78.81
facial 76.19
femur 78.85
fibula 78.87
humerus 78.82
marrow 41.38
patella 78.86
pelvic 78.89
phalanges (foot) (hand) 78.89
radius 78.83
scapula 78.81
specified site NEC 78.89
tarsal, metatarsal 78.88
thorax (ribs) (sternum) 78.81
tibia 78.87
ulna 78.83
vertebrae 78.89
brain 01.18
breast 85.19
bronchus 33.29
buccal 27.24
bursa 83.29
canthus 08.19
cecum 45.28
cerebral meninges 01.18
cervix 67.19
chest wall 34.28
choroid 14.19
ciliary body 12.29
cilijor 71.19
colon 45.28
conjunctiva 10.29
cornea 11.29
cul- de- sac 70.29
dental 24.19
diaphragm 34.28
duodenum 45.19
ear
external 18.19
inner and middle 20.39
epididymis 63.09
esophagus 42.29
Eustachian tube 20.39
extraocular muscle or tendon 15.09
Procedure - diagnostic ---Cont.

eye 16.29
  - anterior chamber 12.29
  - posterior chamber 14.19
eyeball 16.29
eyelid 08.19
fallopian tube 66.19
fascia (any site) 83.29
fetus 75.35
gallbladder 51.19
ganglion (cranial) (peripheral) 04.19
  - sympathetic 05.19
gastric 44.19
globus pallidus 01.18
gum 24.19
heart 37.29
hepatic 50.19
hypophysis 07.19
ileum 45.19
intestine 45.29
  - large 45.28
  - small 45.19
iris 12.29
jejunum 45.19
joint (capsule) (ligament) (structure) NEC 81.98
  - facial 76.19
kidney 55.29
labia 71.19
lacrimal (system) 09.19
large intestine 45.28
larynx 31.48
ligament 81.98
  - uterine 68.19
liver 50.19
lung 33.29
lymphatic structure (channel) (gland) (node) (vessel) 40.19
mediastinum 34.29
meninges (cerebral) 01.18
  - spinal 03.39
mouth 27.29
muscle 83.29
  - extraocular (oblique) (rectus) 15.09
  - papillary (heart) 37.29
nail 86.19
nasopharynx 29.19
nerve (cranial) (peripheral) NEC 04.19
  - sympathetic 05.19
nipple 85.19
nose, nasal 21.29
sinus 22.19
ocular 16.29
  - muscle 15.09
omentum 54.29
ophthalmologic 16.29
oral (cavity) 27.29
orbit 16.29
orthodontic 24.19

Procedure - diagnostic ---Cont.

ovary 65.19
  - laparoscopic 65.14
palate 27.29
pancreas 52.19
papillary muscle (heart) 37.29
parathyroid muscle (heart) 06.19
penis 64.19
perianal tissue 49.29
pericardium 37.29
periprostatic tissue 60.18
perirectal tissue 48.29
perirenal tissue 59.29
peritoneum 54.29
periurethral tissue 58.29
perivesical tissue 59.29
pharynx 29.19
pineal gland 07.19
pituitary gland 07.19
pleura 34.28
posterior chamber, eye 14.19
prostate 60.18
pulmonary 33.29
rectosigmoid 48.29
rectum 48.29
renal 55.29
respiratory 33.29
retina 14.19
retroperitoneum 59.29
salivary gland or duct 26.19
sclera 12.29
scrotum 61.19
seminal vesicle 60.19
sigmoid 45.28
sinus, nasal 22.19
skull 01.19
soft tissue 83.29
spermatic cord 63.09
sphincter of Oddi 51.19
spine, spinal (canal) (cord) (meninges) (structure) 03.39
spleen 41.39
stomach 44.19
subcutaneous tissue 86.19
sympathetic nerve 05.19
tarsus 09.19
tendon NEC 83.29
  - extraocular 15.09
testicle 62.19
thalamus 01.18
thoracic duct 40.19
thorax 34.28
thymus 07.19
thyroid gland 06.19
tongue 25.09
tonsils 28.19
tooth 24.19
trachea 31.49
ICD-9-CM INDEX TO PROCEDURES (FY10)

Procedure - diagnostic ---Cont.
- tunica vaginalis 61.19
- ureter 56.39
- urethra 58.29
- uterus and supporting structures 68.19
- uvula 27.29
- vagina 70.29
- vas deferens 63.09
- vesical 57.39
- vessel (blood) (any site) 38.29
- vitreous 14.19
- vulva 71.19

fistulizing, sclera NEC 12.69
miscellaneous (nonoperative) NEC 99.99
respiratory (nonoperative) NEC 93.99
surgical --see Operation

Proctectasis 96.22
Proctectomy (partial) --see also Resection, rectum 48.69
Abdominoperineal, NOS 48.59
laparoscopic 48.51
open 48.52
other 48.59
complete (Miles) (Rankin), NOS 48.59
laparoscopic 48.51
open 48.52
other 48.59
pull-through
laparoscopic 48.42
not otherwise specified 48.40
open 48.43
other 48.49

Proctoclysis 96.37
Proctolyis 48.99
Proctopexy (Delorme) 48.76
abdominal (Ripstein) 48.75

Proctoplasty 48.79
Proctorrhaphy 48.71

Proctoscopy 48.23
with biopsy 48.24
through stoma (artificial) 48.22
transabdominal approach 48.21

Proctosigmoidectomy --see also Resection, rectum 48.69
Proctosigmoidopexy 48.76
Proctosigmoidoscopy (rigid) 48.23
with biopsy 48.24
flexible 45.24
through stoma (artificial) 48.22
transabdominal approach 48.21

Proctostomy 48.1
Proctotomy (decompression) (linear) 48.0

Production --see also Formation and Creation
atrial septal defect 35.42
subcutaneous tunnel for esophageal anastomosis 42.86
with anastomosis --see Anastomosis, esophagus, antesternal

Prognathic recession 76.64

Prophylaxis, dental (scaling)(polishing) 96.54
Prostatectomy (complete)(partial) NEC 60.69
- loop 60.29
- perineal 60.62
- radical (any approach) 60.5
- retropubic (punch) (transcapsular) 60.4
- suprapubic (punch) (transvesical) 60.3
- transcapsular NEC 60.69
- retropubic 60.4
- transperineal 60.62
- transurethral 60.29
  ablation(contact)(noncontact) by laser 60.21
  electrovaporization 60.29
  enucleative 60.29
  resection of prostate (TURP) 60.29
  ultrasound guided laser induced (TULIP) 60.21
  transvesical punch (suprapubic) 60.3

Prostatocystotomy 60.0
Prostatolithotomy 60.0
Prostatotomy (perineal) 60.0
Prostatovesiculectomy 60.5

Protection (of)
  individual from his surroundings 99.84
  surroundings from individual 99.84

Psychoanalysis 94.31
Psychodrama 94.43

Psychotherapy NEC 94.39
biofeedback 94.39
exploratory verbal 94.37
  group 94.44
    for psychosexual dysfunctions 94.41
    play 94.36
    psychosexual dysfunctions 94.34
    supportive verbal 94.38

PTCA (percutaneous transluminal coronary angioplasty) --see Angioplasty, balloon, coronary

Ptyalectasis 26.91
Ptyalithotomy 26.0
Ptyalolithotomy 26.0

Pubiotomy 77.39
  assisting delivery 73.94

Pubococcygeoplasty 59.71

Puestow operation (pancreaticeojunostomy) 52.96

Pull-through
  abdomino-anal 48.49
  abdominoperineal 48.49
  Duhamel type 48.65
  endorectal 48.41

Pulmowrap 93.99

Pulpectomy --see also Therapy, root canal 23.70

Pulpotomy --see also Therapy, root canal 23.70

Pump-oxygenator, for extracorporeal circulation 39.61
  percutaneous 39.66
Punch
operation
bladder neck, transurethral 57.49
prostate --see Prostatectomy
resection, vocal cords 30.22

Puncture
antrum (nasal) (bilateral) (unilateral) 22.01
artery NEC 38.98
for
arteriography --see also Arteriography 88.40
for
coronary arteriography --see also Arteriography, coronary 88.57
percutaneous vascular closure --omit code
bladder, suprapubic (for drainage) NEC 57.18
needle 57.11
percutaneous (suprapubic) 57.17
bursa 83.94
hand 82.92
cisternal 01.01
with contrast media 87.02
cranial 01.09
with contrast media 87.02
craniofacial (removal of dye) 03.31
cranial 31.69
hypophysis 07.72
iris 12.12
joint 81.91
kidney (percutaneous) 55.92
larynx 31.98
lumbar (diagnostic) (removal of dye) 03.31
lung (for aspiration) 33.93
nasal sinus 22.01
pericardium 37.0
pituitary gland 07.72
pleural cavity 34.91
Rathke's pouch 07.72
spinal 03.31
spine 41.1
for biopsy 41.32
sternal (for bone marrow biopsy) 41.31
donor for bone marrow transplant 41.91
vein NEC 38.99
for
phlebography--see also Phlebography 88.60
transfusion --see Transfusion
ventricular shunt tubing 01.02

Pupillotomy 12.35
Push- back operation (cleft palate repair) 27.62
Putti-Platt operation (capsulorrhaphy of shoulder for recurrent dislocation) 81.82
pVAD (percutaneous ventricular assist device) 37.69
Pyelogram (intravenous) 87.73
infusion (continuous) (diuretic) 87.73
percutaneous 87.75
retrograde 87.74
Pyeloileostomy 56.71
Pyelolithotomy 55.11
Pyeloplasty 55.87
Pyelorrhaphy 55.81
Pyeloscopy 55.22
Pyelostolithotomy, percutaneous 55.03
Pyelostomy 55.12
closure 55.82
Pyelotomy 55.11
Pyeloureteroplasty 55.87
Pylorectomy 43.6
Pyloroduodenotomy --see category 44.2
Pyloromyotomy (Ramstedt) (with wedge resection) 43.3
Pyloroplasty (Finney)(Heineke-Mikulicz) 44.29
dilation, endoscopic 44.22
by incision 44.21
not elsewhere classified 44.29
revision 44.29
Pylorostomy --see Gastrostomy

Q

Quadrant resection of breast 85.22
Quadricepsplasty (Thompson) 83.86
Quarantine 99.84
Quenuthoracoplasty 77.31
Quotient, respiratory 89.38
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachicentesis</td>
<td>03.31</td>
</tr>
<tr>
<td>Rachitomy</td>
<td>03.09</td>
</tr>
<tr>
<td>Radiation therapy -- see also Therapy, Radiation</td>
<td></td>
</tr>
<tr>
<td>teleradiotherapy -- see Teleradiotherapy</td>
<td></td>
</tr>
<tr>
<td>Radical neck dissection -- see Dissection, neck</td>
<td></td>
</tr>
<tr>
<td>Radiocotomy</td>
<td>03.1</td>
</tr>
<tr>
<td>Radiulectomy</td>
<td>03.1</td>
</tr>
<tr>
<td>Radiulotomy</td>
<td>03.1</td>
</tr>
<tr>
<td>Radiography (diagnostic) NEC</td>
<td>88.39</td>
</tr>
<tr>
<td>abdomen, abdominal (flat plate)</td>
<td>NEC 88.19</td>
</tr>
<tr>
<td>wall (soft tissue) NEC</td>
<td>88.09</td>
</tr>
<tr>
<td>adenoid</td>
<td>87.09</td>
</tr>
<tr>
<td>ankle (skeletal)</td>
<td>88.28</td>
</tr>
<tr>
<td>soft tissue</td>
<td>86.37</td>
</tr>
<tr>
<td>bone survey</td>
<td>88.31</td>
</tr>
<tr>
<td>bronchus</td>
<td>87.49</td>
</tr>
<tr>
<td>chest (routine)</td>
<td>87.44</td>
</tr>
<tr>
<td>wall NEC</td>
<td>87.39</td>
</tr>
<tr>
<td>clavicle</td>
<td>87.43</td>
</tr>
<tr>
<td>computer assisted surgery (CAS)</td>
<td>with fluoroscopy 00.33</td>
</tr>
<tr>
<td>contrast (air) (gas) (radio-opaque substance) NEC</td>
<td></td>
</tr>
<tr>
<td>abdominal wall</td>
<td>88.03</td>
</tr>
<tr>
<td>arteries (by fluoroscopy)</td>
<td>-- see Arteriography</td>
</tr>
<tr>
<td>bile ducts</td>
<td>87.54</td>
</tr>
<tr>
<td>bladder NEC</td>
<td>87.77</td>
</tr>
<tr>
<td>brain</td>
<td>87.02</td>
</tr>
<tr>
<td>breast</td>
<td>87.35</td>
</tr>
<tr>
<td>bronchus NEC (transcricoid)</td>
<td>87.32</td>
</tr>
<tr>
<td>endotracheal</td>
<td>87.31</td>
</tr>
<tr>
<td>epididymis</td>
<td>87.93</td>
</tr>
<tr>
<td>esophagus</td>
<td>87.61</td>
</tr>
<tr>
<td>fallopian tubes</td>
<td>gas 87.82</td>
</tr>
<tr>
<td>opague dye</td>
<td>87.83</td>
</tr>
<tr>
<td>fistula (sinus tract) -- see also Radiography, contrast, by site</td>
<td></td>
</tr>
<tr>
<td>abdomen wall</td>
<td>88.03</td>
</tr>
<tr>
<td>chest wall</td>
<td>87.38</td>
</tr>
<tr>
<td>gallbladder NEC</td>
<td>87.59</td>
</tr>
<tr>
<td>intervertebral disc(s)</td>
<td>87.21</td>
</tr>
<tr>
<td>joints</td>
<td>88.32</td>
</tr>
<tr>
<td>larynx</td>
<td>87.07</td>
</tr>
<tr>
<td>lymph -- see Lymphangiogram</td>
<td></td>
</tr>
<tr>
<td>mammary ducts</td>
<td>87.35</td>
</tr>
<tr>
<td>mediastinum</td>
<td>87.33</td>
</tr>
<tr>
<td>nasal sinuses</td>
<td>87.15</td>
</tr>
<tr>
<td>nasolacrimal ducts</td>
<td>87.05</td>
</tr>
<tr>
<td>nasopharynx</td>
<td>87.06</td>
</tr>
<tr>
<td>orbit</td>
<td>87.14</td>
</tr>
</tbody>
</table>

| Radiography - contrast -- Cont. | pancreas 87.66 |
|                                | pelvis         |
|                                | gas 88.12      |
|                                | opaque dye 88.11 |
|                                | peritoneum NEC 88.13 |
|                                | retroperitoneum NEC 88.15 |
|                                | seminal vesicles 87.91 |
|                                | sinus tract -- see also Radiography, contrast, by site | |
|                                | abdominal wall 88.03 |
|                                | chest wall 87.38 |
|                                | nose 87.15 |
|                                | skull 87.02 |
|                                | spinal disc(s) 87.21 |
|                                | trachea 87.32 |
|                                | uterus         |
|                                | gas 87.82      |
|                                | opaque dye 87.83 |
|                                | vas deferens 87.94 |
|                                | veins (by fluoroscopy) -- see Phlebography venae cava (inferior) (superior) 88.51 |
|                                | dental NEC 87.12 |
|                                | diaphragm 87.49 |
|                                | digestive tract NEC 87.69 |
|                                | barium swallow 87.61 |
|                                | lower GI series 87.64 |
|                                | small bowel series 87.63 |
|                                | upper GI series 87.62 |
|                                | elbow (skeletal) 88.22 |
|                                | soft tissue 88.35 |
|                                | epididymis NEC 87.95 |
|                                | esophagus 87.69 |
|                                | barium-swallow 87.61 |
|                                | eye 95.14      |
|                                | face, head, and neck 87.09 |
|                                | facial bones 87.16 |
|                                | fallopian tubes 87.85 |
|                                | foot 88.28     |
|                                | forearm (skeletal) 88.22 |
|                                | soft tissue 88.35 |
|                                | frontal area, facial 87.16 |
|                                | genital organs |
|                                | female NEC 87.89 |
|                                | male NEC 87.99 |
|                                | hand (skeletal) 88.23 |
|                                | soft tissue 88.35 |
|                                | head NEC 87.09 |
|                                | heart 87.49    |
|                                | hip (skeletal) 88.26 |
|                                | soft tissue 88.37 |
|                                | intestine NEC 87.65 |
|                                | kidney-ureter-bladder (KUB) 87.79 |
|                                | knee (skeletal) 88.27 |
|                                | soft tissue 88.37 |
Radiography   --Cont.
   KUB (kidney-ureter-bladder) 87.79
   larynx 87.09
   lower leg (skeletal) 88.27
   soft tissue 88.37
   lower limb (skeletal) NEC 88.29
   soft tissue NEC 88.37
   lung 87.49
   mandible 87.16
   maxilla 87.16
   mediastinum 87.49
   nasal sinuses 87.16
   nasolacrimal duct 87.09
   nasopharynx 87.09
   neck NEC 87.09
   nose 87.16
   orbit 87.16
   pelvis (skeletal) 88.26
   pelvimetry 88.25
   soft tissue 88.19
   prostate NEC 87.92
   retroperitoneum NEC 88.16
   ribs 87.43
   root canal 87.12
   salivary gland 87.09
   seminal vesicles NEC 87.92
   shoulder (skeletal) 88.21
   soft tissue 88.35
   skeletal NEC 88.33
   series (whole or complete) 88.31
   skull (lateral, sagittal or tangential projection) NEC 87.17
   spine NEC 87.29
   cervical 87.22
   lumbosacral 87.24
   sacrococcygeal 87.24
   thoracic 87.23
   sternum 87.43
   supraorbital area 87.16
   symphysis menti 87.16
   teeth NEC 87.12
   full-mouth 87.11
   thigh (skeletal) 88.27
   soft tissue 88.37
   thyroid region 87.09
   tonsils and adenoids 87.09
   trachea 87.49
   ultrasonic   --see Ultrasonography
   upper arm (skeletal) 88.21
   soft tissue 88.35
   upper limb (skeletal) NEC 88.24
   soft tissue NEC 88.35
   urinary system NEC 87.79
   uterus NEC 87.85
   gravid 87.81
   uvula 87.09
   vas deferens NEC 87.95
   wrist 88.23
   zygomaticomaxillary complex 87.16

Radioimmunotherapy 92.28
Radioisotope
   scanning --see Scan, radioisotope
   therapy --see Therapy, radioisotope
Radionuclide
   --see Radioisotope
Radiology
   diagnostic --see Radiography
   therapeutic --see Therapy, radiation
Radiosurgery, stereotactic 92.30
   cobalt 60 92.32
   linear accelerator (LINAC) 92.31
   multi-source 92.32
   particle beam 92.33
   particulate 92.33
   radiosurgery NEC 92.39
   single source photon 92.31
Raising, pedicle graft 86.71
Ramadlier operation (intrapetrosal drainage) 20.22
Ramisection (sympathetic) 05.0
Ramstedt operation (pyloromyotomy)
   (with wedge resection) 43.3
Range of motion testing 93.05
Rankin operation
   exteriorization of intestine 46.03
   proctectomy (complete), NOS 48.50
   laparoscopic 48.51
   open 48.52
   other 48.59
Rashkind operation (balloon septostomy) 35.41
Rastelli operation (creation of conduit between right ventricle and pulmonary artery) 35.92
   in repair of pulmonary artery atresia 35.92
   transposition of great vessels 35.92
   truncus arteriosus 35.83
Raz-Pereyra procedure (bladder neck suspension) 59.79
RCSA (radical cryosurgical ablation) of prostate 60.62
Readjustment   --see Adjustment
Reanastomosis, stump 84.3
Reanastomosis --see Anastomosis
Reattachment
   amputated ear 18.72
   ankle 84.27
   arm (upper) NEC 84.24
   choroid and retina NEC 14.59
   by
      cryotherapy 14.52
      diathermy 14.51
      electrocoagulation 14.51
      photocoagulation 14.55
      laser 14.54
      xenon arc 14.53
   ear (amputated) 18.72
   extremity 84.29
   ankle 84.27
Reattachment - extremity ---Cont.
arm (upper) NEC 84.24
fingers, except thumb 84.22
thumb 84.21
foot 84.26
forearm 84.23
hand 84.23
leg (lower) NEC 84.27
thigh 84.28
thumb 84.21
toe 84.25
wrist 84.23
finger 84.22
thumb 84.21
foot 84.26
forearm 84.23
hand 84.23
joint capsule --see also Arthroplasty 81.96
leg (lower) NEC 84.27
ligament --see also Arthroplasty
uterosacral 69.22
muscle 83.74
hand 82.54
papillary (heart) 35.31
nerve (peripheral) 94.79
nose (amputated) 21.89
papillary muscle (heart) 35.31
penis (amputated) 64.45
retina (and choroid) NEC 14.59
by
cryotherapy 14.52
diathermy 14.51
electrocoagulation 14.51
photocoagulation 14.55
laser 14.54
xenon arc 14.53
tendon (to tendon) 83.73
hand 82.53
to skeletal attachment 83.88
hand 82.85
thigh 84.28
thumb 84.21
toe 84.25
tooth 23.5
uterosacral ligament(s) 69.22
vessels (peripheral) 39.59
renal, aberrant 39.55
wrist 84.23
Recession
extraocular muscle 15.11
multiple (two or more muscles) (with advancement or resection) 15.3
gastrocnemius tendon (Strayer operation) 83.72
levator palpebrae (superioris) muscle 08.38
prognathic jaw 76.64
tendon 83.72
hand 82.52
Reclosure --see also Closure disrupted
abdominal wall (postoperative) 54.61
Reconstruction (plastic) --see also
Construction and Repair, by site
alveolus, alveolar (process) (ridge) (with graft or implant) 24.5
artery (graft) --see Graft, artery
artificial stoma, intestine 46.40
auditory canal (external) 18.6
auricle (ear) 18.71
bladder 57.87
with
ileum 57.87 [45.51]
sigmoid 57.87 [45.52]
bone, except facial --see also
Osteoplasty 78.40
facial NEC 76.46
with total ostectomy 76.44
mandible 76.43
with total mandibulectomy 76.41
breast, total, NOS 85.70
deep inferior epigastric artery perforator (DIEP) flap, free 85.74
gluteal artery perforator (GAP) flap, free 85.76
latissimus dorsi myocutaneous flap 85.71
other 85.79
superficial inferior epigastric artery (SIEA) flap, free 85.75
transverse rectus abdominis musculo-cutaneous (TRAM) flap, free 85.73
transverse rectus abdominis myocutaneous (TRAM) flap, pedicled 85.72
bronchus 33.48
canthus (lateral) 08.59
cardiac annulus 35.33
chest wall (mesh) (silastic) 34.79
cleft lip 27.54
conjunctival cul-de-sac 10.43
with graft (buccal mucous membrane) (free) 10.42
cornea NEC 11.79
diaphragm 34.84
ear (external) (auricle) 18.71
external auditory canal 18.6
meatus (new) (osseous skin-lined) 18.6
ossicles 19.3
prominent or protruding 18.5
eyebrow 08.70
eyelid 08.70
with graft or flap 08.69
hair follicle 08.63
mucous membrane 08.62
skin 08.61
tarsal conjunctival (one-stage) (two-stage) 08.64
full-thickness 08.74
involving lid margin 08.73
partial-thickness 08.72
involving lid margin 08.71
**Reconstruction** ---Cont.
- eye socket 16.64
  - with graft 16.63
- fallopian tube 66.79
- foot and toes (with fixation device) 81.57
  - with prosthesis implant 81.57
- frontonasal duct 22.79
- hip (total) (with prosthesis) 81.51
- intraoral 27.59
- joint --see Arthroplasty
- lymphatic (by transplantation) 40.9
- mandible 76.43
  - with total mandibulectomy 76.41
- mastoid cavity 19.9
- mouth 27.59
- nipple NEC 85.87
- nose (total) (with arm flap) (with forehead flap) 21.83
- ossicles (graft) (prosthesis) NEC 19.3
  - with stapedectomy 19.19
  - tympanoplasty 19.53
- pelvic floor 71.79
- penis (rib graft) (skin graft) (myocutaneous flap) 64.44
- pharynx 29.4
- scrotum (with pedicle flap) (with rotational flap) 61.49
- skin (plastic) (without graft) NEC 86.89
  - with graft --see Graft, skin
  - subcutaneous tissue (without skin graft) NEC 86.89
  - with graft --see Graft, skin
- tendon pulley (with graft)(with local tissue) 83.83
  - for opponensplasty 82.71
  - hand 82.71
- thumb (osteoplastic) (with bone graft) (with skin graft) 82.69
- trachea (with graft) 31.75
- umbilicus
  - laparoscopic 53.43
  - with graft or prosthesis 53.42
  - other and open with graft or prosthesis 53.41
  - other open 53.49
- ureteropelvic junction 55.87
- urethra 58.46
- vagina 70.62
  - with graft or prosthesis 70.64
  - vas deferens, surgically divided 63.82

**Rectosigmoidectomy** --see also Resection, rectum 48.69
  - transsacral 48.61

**Rectosigmoidostomy** 45.94

**Rectostomy** 48.1
  - closure 48.72

**Red cell survival studies** 92.05

**Reduction**
- adipose tissue 86.83
- batwing arms 86.83
- breast (bilateral) 85.32
  - unilateral 85.31
- bulbous tuberosities (mandible) (maxilla) (fibrous) (osseous) 24.31
- buttocks 86.83
- diastasis, ankle mortise (closed) 79.77
  - open 79.87
- dislocation (of joint) (manipulation) (with cast) (with splint) (with traction device) (closed) 79.70
  - with fracture --see Reduction, fracture, by site
  - ankle (closed) 79.77
  - open 79.87
  - elbow (closed) 79.72
  - open 79.82
  - finger (closed) 79.74
  - open 79.84
  - foot (closed) 79.78
  - open 79.88
  - hand (closed) 79.74
  - open 79.84
  - hip (closed) 79.75
  - open 79.85
  - knee (closed) 79.76
  - open 79.86
  - open (with external fixation) (with internal fixation) 79.80
  - specified site NEC 79.89
  - shoulder (closed) 79.71
  - open 79.81
  - specified site (closed) NEC 79.79
  - open 79.89
  - temporomandibular (closed) 76.93
  - open 76.94
  - toe (closed) 79.78
  - open 79.88
  - wrist (closed) 79.73
  - open 79.83
  - elephantiasis, scrotum 61.3
- epistaxis--see also Control, epistaxis 21.00
- fracture (bone) (with cast) (with splint) (with traction device) (closed) 79.00
  - with internal fixation 79.10
  - alveolar process (with stabilization of teeth) mandible (closed) 76.75
  - open 76.77
  - maxilla (closed) 76.73
  - open 76.77
  - open 76.77

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**Recontour, gingiva** 24.2

**Recreational therapy** 93.81

**Rectectomy--see also Resection, rectum** 48.69

**Rectopexy** (Delorme) 48.76
  - abdominal (Ripstein) 48.75

**Rectoplasty** 48.79

**Rectorectostomy** 48.74

**Rectorrhaphy** 48.71
Reduction-fracture --Cont.
ankle -- see Reduction, fracture, leg
arm (closed) NEC 79.02
  with internal fixation 79.12
  open 79.22
  with internal fixation 79.32
blow-out -- see Reduction, fracture, orbit
carpal, metacarpal (closed) 79.03
  with internal fixation 79.13
  open 79.23
  with internal fixation 79.33
epiphysis -- see Reduction, separation
facial (bone) NEC 76.70
  closed 76.78
  open 76.79
femur (closed) 79.05
  with internal fixation 79.15
  open 79.25
  with internal fixation 79.35
fibula (closed) 79.06
  with internal fixation 79.16
  open 79.26
  with internal fixation 79.36
foot (closed) NEC 79.07
  with internal fixation 79.17
  open 79.27
  with internal fixation 79.37
hand (closed) NEC 79.03
  with internal fixation 79.13
  open 79.23
  with internal fixation 79.33
humerus (closed) 79.01
  with internal fixation 79.11
  open 79.21
  with internal fixation 79.31
jaw (lower) -- see also Reduction, fracture, mandible
  upper -- see Reduction, fracture, maxilla
larynx 31.64
leg (closed) NEC 79.06
  with internal fixation 79.16
  open 79.26
  with internal fixation 79.36
malar (closed) 76.71
  open 76.72
  mandible(with dental wiring)(closed) 76.75
  open 76.76
  maxilla(with dental wiring)(closed) 76.73
  open 76.74
nasal (closed) 21.71
  open 21.72
  open 79.20
  with internal fixation 79.30
  specified site NEC 79.29
  with internal fixation 79.39
orbit (rim) (wall) (closed) 76.78
  open 76.79
  patella(open)(with internal fixation) 79.36
Reduction-fracture --Cont.
phalanges
  foot (closed) 79.08
  with internal fixation 79.18
  open 79.28
  with internal fixation 79.38
  hand (closed) 79.04
  with internal fixation 79.14
  open 79.24
  with internal fixation 79.34
radius (closed) 79.02
  with internal fixation 79.12
  open 79.22
  with internal fixation 79.32
skull 02.02
  specified site (closed) NEC 79.09
  with internal fixation 79.19
  open 79.29
  with internal fixation 79.39
spine 03.53
tarsal, metatarsal (closed) 79.07
  with internal fixation 79.17
  open 79.27
  with internal fixation 79.37
tibia (closed) 79.06
  with internal fixation 79.16
  open 79.26
  with internal fixation 79.36
ulna (closed) 79.02
  with internal fixation 79.12
  open 79.22
  with internal fixation 79.32
vertebra 03.53
zygoma, zygomatic arch (closed) 76.71
  open 76.72
fracture dislocation -- see Reduction, fracture
heart volume 37.35
hemorrhoids (manual) 49.41
hernia -- see also Repair, hernia
  manual 96.27
intussusception (open) 46.80
  with
    fluoroscopy 96.29
    ionizing radiation enema 96.29
    ultrasonography guidance 96.29
hydrostatic 96.29
large intestine 46.82
  endoscopic (balloon) 46.85
  pneumatic 96.29
small intestine 46.81
lung volume 32.22
  biologic lung volume reduction (BLVR)
    -- see category 33.7
malrotation, intestine(manual)(surgical) 46.80
  large 46.82
    endoscopic (balloon) 46.85
    small 46.81
mammoplasty (bilateral) 85.32
  unilateral 85.31
Reduction - -Cont.
prolapse
   anus (operative) 49.94
   colostomy (manual) 96.28
   enterostomy (manual) 96.28
   ileostomy (manual) 96.28
   rectum (manual) 96.26
   uterus
      by pessary 96.18
      surgical 69.22
ptosis overcorrection 08.37
retroversion, uterus by pessary 96.18
separation, epiphysis (with internal fixation) (closed) 79.40
   femur (closed) 79.45
      open 79.55
   fibula (closed) 79.46
      open 79.56
   humerus (closed) 79.41
      open 79.51
      open 79.50
   specified site (closed) NEC --see also category 79.4
      open --see category 79.5
   tibia (closed) 79.46
      open 79.56
size
   abdominal wall (adipose) (pendulous) 86.83
   arms (adipose) (batwing) 86.83
   breast (bilateral) 85.32
      unilateral 85.31
   buttocks (adipose) 86.83
   finger (macrodactyly repair) 82.83
   skin 86.83
   subcutaneous tissue 86.83
   thighs (adipose) 86.83
torsion
   intestine (manual) (surgical) 46.80
      large 46.82
         endoscopic (balloon) 46.85
      small 46.81
   kidney pedicle 55.84
   omentum 54.74
   spermatic cord 63.52
      with orchiopexy 62.5
   testis 63.52
      with orchiopexy 62.5
   uterus NEC 69.98
   gravid 75.99
ventricular 37.35
volvulus
   intestine 46.80
      large 46.82
         endoscopic (balloon) 46.85
      small 46.81
   stomach 44.92
Reefing, joint capsule --see also Arthroplasty 81.96
Re- entry operation (aorta) 39.54

Re- establishment, continuity
   --see also Anastomosis
   bowel 46.50
   fallopian tube 66.79
   vas deferens 63.82
Re- fusion
   spinal, NOS 81.30
      atlas- axis (anterior) (transoral)
      (posterior) 81.31
   cervical (C2 level or below) NEC 81.32
      anterior (interbody), anterolateral technique 81.32
      C1-C2 level (anterior)(posterior) 81.31
      posterior (interbody), posterolateral technique 81.33
      cranio cervical
         (anterior)(transoral)(posterior) 81.31
   dorsal, dorsolumbar NEC 81.35
      anterior (interbody), anterolateral technique 81.34
      posterior (interbody) posterolateral technique 81.35
   lumbar, lumbosacral NEC 81.38
      anterior (interbody), anterolateral technique 81.36
      anterior lumbar interbody fusion (ALIF) 81.36
      lateral transverse process technique 81.37
      posterior (interbody), posterolateral technique 81.38
      posterior lumbar interbody fusion (PLIF) 81.38
      transforaminal lumbar interbody fusion (TLIF) 81.38
      number of vertebrae
         --see codes 81.62 - 81.64
      occipit- C2 (anterior) (transoral)
         (posterior) 81.31

Re- fusion
Refusion --Cont
refusion NEC 81.39

Note: Also use either 81.62, 81.63, or 81.64 as an additional code to show the total number of vertebrae fused

Regional blood flow study 92.05
Regulation, menstrual 69.6
Rehabilitation programs NEC 93.89
alcohol 94.61
with detoxification 94.63
combined alcohol and drug 94.67
with detoxification 94.69
drug 94.64
with detoxification 94.66
combined drug and alcohol 94.67
with detoxification 94.69
sheltered employment 93.85
vocational 93.85

Reimplantation
adrenal tissue (heterotopic) (orthotopic) 07.45
artery 39.59
renal, aberrant 39.55
bile ducts following excision of ampulla of Vater 51.62
extremity --see Reattachment, extremity fallopian tube into uterus 66.74
kidney 55.61
lung 33.5
ovary 65.72
laparoscopic 65.75
pancreatic tissue 52.81
parathyroid tissue (heterotopic) (orthotopic) 06.95
pulmonary artery for hemitruncus repair 35.83
renal vessel, aberrant 39.55
testis in scrotum 62.5
thyroid tissue (heterotopic) (orthotopic) 06.94
tooth 23.5
ureter into bladder 56.74

Reinforcement --see also Repair, by site
sclera NEC 12.88
with graft 12.87
Reinsertion --see also Insertion or Revision
cystostomy tube 59.94
fixation device (internal) --see also Fixation, bone, internal 78.50
heart valve (prosthetic) 35.95
Holter (-Spitz) valve 02.42
implant (expelled) (extruded)
  eyeball (with conjunctival graft) 16.62
  orbital 16.62
nephrostomy tube 55.93
pyelostomy tube 55.94

Reinsertion --Cont
ureteral stent (transurethral) 59.8
with ureterotomy 59.8 [86.2]
ureterostomy tube 59.93
valve
  heart (prosthetic) 35.95
  ventricular (cerebral) 02.42

Relaxation --see also Release training 94.33
Release
carpal tunnel (for nerve decompression) 04.43
celiac artery axis 39.91
central slip, extensor tendon hand (mallet finger repair) 82.84
chordee 64.42
clubfoot NEC 83.84
de Quervain's tenosynovitis 82.01
Dupuytren's contracture (by palmar fasciectomy) 82.35
by fasciotomy (subcutaneous) 82.12
with excision 82.35
Fowler (mallet finger repair) 82.84
joint (capsule) (adherent) (constrictive) --see also Division, joint capsule 80.40
laryngeal 31.92
ligament --see also Division, ligament 80.40
median arcuate 39.91
median arcuate ligament 39.91
muscle (division) 83.19
  hand 82.19
nerve (peripheral) NEC 04.49
  cranial NEC 04.42
  trigeminal 04.41
pressure, intraocular 12.79
scar tissue
  skin 86.84
  stoma --see Revision, stoma
tarsal tunnel 04.44
tendon 83.13
  hand 82.11
  extensor, central slip (repair mallet finger) 82.84
sheath 83.01
  hand 82.01
tenosynovitis 83.01
abductor pollicis longus 82.01
de Quervain's 82.01
external pollicis brevis 82.01
hand 82.01
torsion
intestine 46.80
  large 46.82
  endoscopic (balloon) 46.85
  small 46.81
kidney pedicle 55.84
ovary 65.95
testes 63.52
transverse carpal ligament (for nerve decompression) 04.43
Release --Cont.

trigger finger or thumb 82.01
urethral stricture 58.5
Volkmann's contracture
excision of scar, muscle 83.32
fasciotomy 83.14
muscle transplantation 83.77
web contracture (skin) 86.84

Relief --see Release

Relocation --see also Revision
cardiac device (CRT-D)(CRT-P)(defibrillator)
(pacemaker) pocket, new site (skin)
(subcutaneous) 37.79
CRT-D pocket 37.79
CRT-P pocket 37.79
subcutaneous device pocket NEC 86.09

Remobilization
joint 93.16
stapes 19.0

Remodel
ventricle 37.35

Removal --see also Excision
Abrams bar (chest wall) 34.01
abscess --see Incision, by site
adenoid tag(s) 28.6
anal sphincter
with revision 49.75
without revision 49.76
arch bars (orthodontic) 24.8
immobilization device 97.33
artificial heart
internal biventricular replacement system 37.55
arterial graft or prosthesis 39.49
arteriovenous shunt (device) 39.43
with creation of new shunt 39.42
Barton's tongs (skull) 02.95
with synchronous replacement 02.94
bladder sphincter, artificial 58.99
with replacement 58.93
blood clot --see also Incision, by site
bladder (by incision) 57.19
without incision 57.0
kidney (without incision) 56.0
by incision 55.01
ureter
by incision 56.2
bone fragment (chip) --see also Incision, bone 77.10
joint --see also Arthrotomy 80.10
necrotic --see also Sequestrectomy, bone 77.00
joint --see also Arthrotomy 80.10
skull 01.25
with debridement compound fracture 02.02
bone growth stimulator--see category 78.6
bony spicules, spinal canal 03.53
brace 97.88

Removal --Cont.

breast implant 85.94
tissue expander 85.96
bronchial device or substance
endoscopic 33.78
calcareaous deposit
bursa 83.03
hand 82.03
tendon, intratendinous 83.39
hand 82.29
calcification, heart valve leaflets
--see Valvuloplasty, heart
calculus
bile duct (by incision) 51.49
endoscopic 51.88
laparoscopic 51.88
percutaneous 51.98
bladder (by incision) 57.19
without incision 57.0
common duct (by incision) 51.41
endoscopic 51.88
laparoscopic 51.88
percutaneous 51.96
gallbladder 51.04
endoscopic 51.88
laparoscopic 51.88
kidney (by incision) 55.01
without incision (transurethral) 56.0
percutaneous 55.03
with fragmentation (ultrasound) 55.04
renal pelvis (by incision) 55.11
percutaneous nephrostomy 55.03
with fragmentation 55.04
transurethral 56.0
lacrimal
canaliculari 09.42
by incision 09.52
gland 09.3
by incision 09.0
passage(s) 09.49
by incision 09.59
punctum 09.41
by incision 09.51
sac 09.49
by incision 09.53
pancreatic duct (by incision) 52.09
endoscopic 52.94
perirenal tissue 59.09
pharynx 29.39
prostate 60.0
salivary gland (by incision) 26.0
by probe 26.91
ureter (by incision) 56.2
without incision 56.0
urethra (by incision) 58.0
without incision 58.6
caliper tongs (skull) 02.95
Removal --Cont.
cannula
  for extracorporeal membrane oxygenation (ECMO) --omit code
cardiac pacemaker (device) (initial)
  (permanent)(cardiac resynchronization device,CRT-P) 37.89
  with replacement (by)
  cardiac resynchronization pacemaker (CRT-P)
  device only 00.53
  total system 00.50
  dual chamber device 37.87
  single-chamber device 37.85
  rate responsive 37.86
cardiocor/defibrillator pulse generator
  without replacement (cardiac resynchronization defibrillator device (CRT-D)) 37.79
  cast 97.88
  with reapplication 97.13
  lower limb 97.12
  upper limb 97.11
catheter (indwelling) --see also Removal, tube
  bladder 97.64
  cranial cavity 01.27
  middle ear (tympanum) 20.1
  ureter 97.62
  urinary 97.64
  ventricular (cerebral) 02.43
  with synchronous replacement 02.42
  CCM (cardiac contractility modulation)
  without replacement (rechargeable pulse generator) (total system) 37.79
  cerclage material, cervix 69.96
  cerumen, ear 96.52
  corneal epithelium 11.41
  for smear or culture 11.21
  coronary artery obstruction (thrombus) 36.09
  direct intracoronary artery infusion 36.04
  open chest approach 36.03
  percutaneous transluminal (balloon)
  Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
  with thrombolytic agent infusion 36.02
  multiple vessels 36.05
Removal --Cont.
  Crutchfield tongs (skull) 02.95
  with synchronous replacement 02.94
  cyst --see also Excision, lesion, by site
    dental 24.4
    lung 32.29
    endoscopic 32.28
    thoracoscopic 32.20
  cystic duct remnant 51.61
  decidua (by)
    aspiration curettage 69.52
    curettage (D and C) 69.02
    manual 75.4
  dental wiring (immobilization device) 97.33
  orthodontic 24.8
  device (therapeutic) NEC 97.89
  abdomen NEC 97.86
  bronchus 33.78
  valve 33.78
  digestive system NEC 97.59
  drainage --see Removal, tube
  external fixation device 97.88
  mandibular NEC 97.36
  minifixator (bone) --see category 78.6
  for musculoskeletal immobilization NEC 97.88
  genital tract NEC 97.79
  head and neck NEC 97.39
  intrauterine contraceptive 97.71
  spine 80.09
  thorax NEC 97.49
  trunk NEC 97.87
  urinary system NEC 97.69
  diaphragm, vagina 97.73
  drainage device --see Removal, tube
dye, spinal canal 03.31
ectopic fetus (from) 66.02
  abdominal cavity 74.3
  extraperitoneal (intraligamentous) 74.3
  fallopian tube (by salpingostomy) 66.02
  by salpingotomy 66.01
  with salpingectomy 66.62
  intraligamentous 74.3
  ovarian 74.3
  peritoneal (following uterine or tubal rupture) 74.3
  site NEC 74.3
  tubal (by salpingostomy) 66.02
  by salpingotomy 66.01
  with salpingectomy 66.62
  electrodes
    bone growth stimulator --see category 78.6
    brain 01.22
    depth 01.22
    with synchronous replacement 02.93
    foramen ovale 01.22
    with synchronous replacement 02.93
    sphenoidal --omit code
    with synchronous replacement 02.96
Removal – electrodes --- Cont.
cardiac pacemaker (atrial) (transvenous) (ventricular) 37.77
   with replacement 37.76
carotid sinus 04.93
   with synchronous replacement 04.92
depth 01.22
   with synchronous replacement 02.93
epicardial (myocardial) 37.77
   with replacement (by)
   atrial and/or ventricular lead(s) (electrode) 37.76
eecciphalic lead 37.74
epidural pegs 01.22
   with synchronous replacement 02.93
foramen ovale 01.22
   with synchronous replacement 02.93
gastric 04.93
   with synchronous replacement 02.93
intracranial 01.22
   with synchronous replacement 04.92
peripheral nerve 04.93
   with synchronous replacement 02.93
sacral nerve 04.93
sphenoidal -- omit code
   with synchronous replacement 02.96
spinal 03.94
   with synchronous replacement 03.93
temporary transvenous pacemaker system -- omit code
electroencephalographic receiver (brain) (intracranial) 01.22
   with synchronous replacement 02.93
electronic stimulator -- see Removal, neurostimulator, by site
   bladder 57.98
   bone 78.6
   skeletal muscle 83.93
   with synchronous replacement 83.92
   ureter 56.94
electrostimulator -- see Removal, electronic, stimulator, by site
embolus 38.00
   with endarterectomy
      -- see Endarterectomy
abdominal
   artery 38.06
   vein 38.07
aorta (arch) (ascending) (descending) 38.04
arteriovenous shunt or cannula 39.49
bovine graft 39.49
head and neck vessel
   endovascular approach 39.74
   open approach, intracranial vessels 38.01
   open approach, other vessels of head and neck 38.02
Removal – embolus -- Cont.
intracranial vessel
   endovascular approach 39.74
   open approach, intracranial vessels 38.01
   open approach, other vessels of head and neck 38.02
lower limb
   artery 38.08
   vein 38.09
   pulmonary (artery) (vein) 38.05
   thoracic vessel NEC 38.05
   upper limb (artery) (vein) 38.03
   embryo -- see Removal, ectopic fetus
   encircling tube, eye (episcleral) 14.6
   epithelial downgrowth, anterior chamber 12.93
   external fixation device 97.88
   mandibular NEC 97.36
   minifixator (bone) -- see category 78.6
   extraterine embryo -- see Removal, ectopic fetus
   eyeball 16.49
      with implant 16.42
      with attachment of muscles 16.41
   fallopian tube -- see Salpingectomy
   feces (impacted) (by flushing) (manual) 96.38
   fetus, ectopic -- see Removal, ectopic fetus
   fingers, supernumerary 86.26
   fixation device
      external 97.88
      mandibular NEC 97.36
      minifixator (bone) -- see category 78.6
   internal 78.60
   carpal, metacarpal 78.64
   clavicle 78.61
   facial (bone) 76.97
   femur 78.65
   fibula 78.67
   humerus 78.62
   patella 78.66
   pelvic 78.69
   phalanges (foot) (hand) 78.69
   radius 78.63
   scapula 78.61
   specified site NEC 78.69
   tarsal, metatarsal 78.68
   thorax (ribs) (sternum) 78.61
   tibia 78.67
   ulna 78.63
   vertebrae 78.69
   foreign body NEC -- see also Incision, by site
      abdominal NEC 98.20
      abdominal (cavity) 54.92
      wall 54.0
      adenoid 98.13
      by incision 28.91
      alveolus, alveolar bone 98.22
      by incision 24.0
Removal - foreign body ---Cont.

antecubital fossa 98.27  
by incision 86.05  
artery 12.00  
by incision 12.02  
with use of magnet 12.01  
apus (intraluminal) 98.05  
by incision 49.93  
artificial stoma (intraluminal) 98.18  
auditory canal, external 18.02  
axilla 98.27  
by incision 86.05  
bladder (without incision) 57.0  
by incision 57.19  
bone, except fixation device --see also  
Incision, bone 77.10  
alveolus, alveolar 98.22  
by incision 24.0  
brain 01.39  
without incision into brain 01.24  
breast 85.0  
bronchus (intraluminal) 98.15  
by incision 33.0  
bursa 83.03  
hand 82.03  
canthus 98.22  
by incision 08.51  
cerebral meninges 01.31  
cervix (intraluminal) NEC 98.16  
penetrating 69.97  
choroid (by incision) 14.00  
with use of magnet 14.01  
without use of magnet 14.02  
ciliary body (by incision) 12.00  
with use of magnet 12.01  
without use of magnet 12.02  
conjunctiva (by magnet) 98.22  
by incision 10.0  
cornea 98.21  
by  
incision 11.1  
magnet 11.0  
duodenum 98.03  
by incision 45.01  
ear (intraluminal) 98.11  
with incision 18.09  
epididymis 63.92  
esophagus (intraluminal) 98.02  
by incision 42.09  
extrapleural (by incision) 34.01  
eye, eyeball (by magnet) 98.21  
anterior segment (by incision) 12.00  
with use of magnet 12.01  
without use of magnet 12.02  
posterior segment (by incision) 14.00  
with use of magnet 14.01  
without use of magnet 14.02  
superficial 98.21  

Removal - foreign body ---Cont.

eyelid 98.22  
by incision 08.09  
fallopian tube  
by salpingostomy 66.02  
by salpingotomy 66.01  
fascia 83.09  
hand 82.09  
foot 98.28  
gland 51.04  
groin region (abdominal wall) (inguinal) 54.0  
gum 98.22  
by incision 24.0  
hand 98.26  
head and neck NEC 98.22  
heart 37.11  
internal fixation device --see Removal,  
fixation device, internal  
testes  
by incision 45.00  
large (intraluminal) 98.04  
by incision 45.03  
small (intraluminal) 98.03  
by incision 45.02  
 intraocular (by incision) 12.00  
with use of magnet 12.01  
without use of magnet 12.02  
iris (by incision) 12.00  
with use of magnet 12.01  
without use of magnet 12.02  
joint structures --see also Arthrotomy 80.10  
kidney (transurethral) (by endoscopy) 56.0  
by incision 55.01  
pelvis (transurethral) 56.0  
by incision 55.11  
labia 98.23  
by incision 71.09  
lacrimal  
canaliculi 09.42  
by incision 09.52  
gland 09.3  
by incision 09.0  
passage(s) 09.49  
by incision 09.59  
punctum 09.41  
by incision 09.51  
sac 09.49  
by incision 09.53  
large intestine (intraluminal) 98.04  
by incision 45.03  
larynx (intraluminal) 98.14  
by incision 31.3  
lens 13.00  
by incision 13.02  
with use of magnet 13.01  
liver 50.0  
lower limb, except foot 98.29  
foot 98.28
Removal - foreign body --Cont.

lung 33.1
mediastinum 34.1
meninges (cerebral) 01.31
spinal 03.01
mouth (intraluminal) 98.01
by incision 27.92
muscle 83.02
hand 82.02
nasal sinus 22.50
antrum 22.2
with Caldwell-Luc approach 22.39
ethmoid 22.51
frontal 22.41
maxillary 22.2
with Caldwell-Luc approach 22.39
sphenoid 22.52
nerve (cranial) (peripheral) NEC 04.04
root 03.01
nose (intraluminal) 98.12
by incision 21.1
oral cavity (intraluminal) 98.01
by incision 27.92
orbit (by magnet) 98.21
by incision 16.1
palate (penetrating) 98.22
by incision 27.1
pancreas 52.09
penis 98.24
by incision 64.92
pericardium 37.12
perineum (female) 98.23
by incision 71.09
male 98.25
by incision 86.05
perirenal tissue 59.09
peritoneal cavity 54.92
perivesical tissue 59.19
pharynx (intraluminal) 98.13
by pharyngotomy 29.0
pleura (by incision) 34.09
popliteal space 98.29
by incision 86.05
rectum (intraluminal) 98.05
by incision 48.0
renal pelvis (transurethral) 56.0
by incision 56.1
retina (by incision) 14.00
with use of magnet 14.01
without use of magnet 14.02
retroperitoneum 54.92
sclera (by incision) 12.00
with use of magnet 12.01
without use of magnet 12.02
scrotum 98.24
by incision 61.0
sinus (nasal) 22.50
antrum 22.2
with Caldwell-Luc approach 22.39

Removal - foreign body --sinus --Cont.

ethmoid 22.51
frontal 22.41
maxillary 22.2
with Caldwell-Luc approach 22.39
sphenoid 22.52
skin NEC 98.20
by incision 86.05
skull 01.24
with incision into brain 01.39
small intestine (intraluminal) 98.03
by incision 45.02
soft tissue NEC 83.09
hand 82.09
spermatic cord 63.93
spinal (canal) (cord) (meninges) 03.01
stomach (intraluminal) 98.03
bubble (balloon) 44.94
by incision 43.0
subconjunctival (by magnet) 98.22
by incision 10.0
subcutaneous tissue NEC 98.20
by incision 86.05
supraclavicular fossa 98.27
by incision 86.05
tendon (sheath) 83.01
hand 82.01
testis 62.0
thorax (by incision) 34.09
thyroid (field) (gland) (by incision) 06.09
tonsil 98.13
by incision 28.91
trachea (intraluminal) 98.15
by incision 31.3
trunk NEC 98.25
tunica vaginalis 98.24
upper limb, except hand 98.27
hand 98.26
ureter (transurethral) 56.0
by incision 56.2
urethra (intraluminal) 98.19
by incision 58.0
uterus (intraluminal) 98.16
vagina (intraluminal) 98.17
by incision 70.14
vas deferens 63.6
vitreous (by incision) 14.00
with use of magnet 14.01
without use of magnet 14.02
vulva 98.23
by incision 71.09
gallstones
bile duct (by incision) NEC 51.49
endoscopic 51.88
common duct (by incision) 51.41
endoscopic 51.88
percutaneous 51.96
duodenum 45.01
Removal - gallstones --Cont.
gallbladder 51.04
endoscopic 51.88
laparoscopic 51.88
hepatic ducts 51.49
endoscopic 51.88
intestine 45.00
large 45.03
small NEC 45.02
liver 50.0
Gardner Wells tongs (skull) 02.95
with synchronous replacement 02.94
gastric band (adjustable), laparoscopic 44.97
granulation tissue --see also Excision, lesion, by site
with repair --see Repair, by site
cranial 01.6
skull 01.6
halo traction device (skull) 02.95
with synchronous replacement 02.94
heart assist system
with replacement 37.63
intra-aortic balloon pump (IABP) 97.44
nonoperative 97.44
open removal 37.64
percutaneous external device 97.44
heart replacement system
internal biventricular 37.55
hematoma --see Drainage, by site
Hoffman minifixator device (bone)
--see category 78.6
hydatidiform mole 68.0
impacted
feces (rectum) (by flushing) (manual) 96.38
tooth 23.19
from nasal sinus (maxillary) 22.61
implant
breast 85.94
cochlear prosthetic device 20.99
cornea 11.92
lens (prosthetic) 13.8
middle ear NEC 20.99
ocular 16.71
-posterior segment 14.6
orbit 16.72
retina 14.6
tymanum 20.1
implantable hemodynamic sensor (lead) and monitor device 37.79
internal biventricular heart replacement system 37.55
internal fixation device --see Removal, fixation device, internal
intra-aortic balloon pump (IABP) 97.44
intrauterine contraceptive device (IUD) 97.71
joint (structure) NOS 80.90
ankle 80.97
Removal - joint --Cont.
elbow 80.92
foot and toe 80.98
hand and finger 80.94
hip 80.95
knee 80.96
other specified sites 80.99
shoulder 80.91
spine 80.99
toe 80.98
wrist 80.93
Kantrowitz heart pump 37.64
nonoperative 97.44
keel (tantalum plate), larynx 31.98
kidney --see also Nephrectomy
mechanical 55.98
transplanted or rejected 55.53
lamina (tent), uterus 97.79
leads (cardiac) --see Removal, electrodes, cardiac pacemaker
lesion --see Excision, lesion, by site
ligamentum flavum (spine) --omit code
ligature
-fallopian tube 66.79
ureter 56.86
vas deferens 63.84
limb lengthening device, internal
--see category 78.6
loop recorder 86.05
loose body
bone --see Sequestrectomy, bone
joint 80.10
mesh (surgical) --see Removal, foreign body, by site
lymph node --see Excision, lymph, node
minifixator device (bone)
--see category 78.6
external fixation device 97.88
Mulligan hood, fallopian tube 66.94
with synchronous replacement 66.93
muscle stimulator (skeletal) 83.93
with replacement 83.92
myringotomy device or tube 20.1
nail (bed) (fold) 86.23
internal fixation device --see Removal, fixation device, internal
necrosis
skin 86.28
excisional 86.22
neuropacemaker --see Removal, neurostimulator, by site
neurostimulator
-electrodes
brain 01.22
with synchronous replacement 02.93
carotid sinus 04.93
with synchronous replacement 04.92
gastric 04.93
with synchronous replacement 04.92
Removal – neurostimulator electrodes --- Cont.

- intracranial 01.22
- with synchronous replacement 02.93
- peripheral nerve 04.93
- with synchronous replacement 04.92
- sacral nerve 04.93
- with synchronous replacement 04.92
- spinal 03.94
- with synchronous replacement 03.93
- pulse generator (single array, dual array) 86.05
- with synchronous replacement 86.96
- dual array 86.95
- rechargeable 86.98
- single array 86.94
- rechargeable 86.97

- nonabsorbable surgical material NEC
  --see REMOVAL, foreign body, by site
- odontoma (tooth) 24.4
- orbital implant 16.72
- osteocartilagenous loose body, joint
  structures --see also Arthrotomy 80.10
- outer attic wall (middle ear) 20.59
- ovo-testis (unilateral) 62.3
  --bilateral 62.41
- pacemaker
  --brain (intracranial) -- see REMOVAL, neurostimulator
  --cardiac (device)(initial)(permanent) 37.89
  --with replacement
  --dual-chamber device 37.87
  --single-chamber device 37.85
  --rate responsive 37.86
  --electrodes (atrial) (transvenous)
    --(ventricular) 37.77
  --with replacement 37.76
  --epicardium (myocardium) 37.77
  --with replacement (by)
    --atrial and/or ventricular lead(s)
      --(electrode) 37.76
  --epicardial lead 37.74
  --temporary transvenous pacemaker
  --system --omit code
  --intracranial -- see REMOVAL, neurostimulator
  --neural
  --peripheral nerve -- see REMOVAL, neurostimulator
  --spinal -- see REMOVAL, neurostimulator
- pack, packing
  --dental 97.34
  --intrauterine 97.72
  --nasal 97.32
  --rectum 97.59
  --trunk NEC 97.85
  --vagina 97.75
  --vulva 97.75
- pantopaque dye, spinal canal 03.31
- patella (complete) 77.96
  --partial 77.86

Removal -- Cont.

- pectus deformity implant device 34.01
- pelvic viscera, en masse (female) 68.8
  --male 57.71
- pessary, vagina NEC 97.74
- pharynx (partial) 29.33
- phlebolith -- see REMOVAL, embolus
- placenta (by)
  --aspiration curettage 69.52
  --D and C 69.02
  --manual 75.4
- plaque, dental 96.54
- plate, skull 02.07
  --with synchronous replacement 02.05
- polyp -- see also Excision, lesion, by site
- esophageal 42.32
  --endoscopic 42.33
- gastric (endoscopic) 43.41
- intestine 45.41
  --endoscopic 45.42
- nasal 21.31
- prosthesis
  --bile duct 51.95
  --nonoperative 97.55
  --cochlear prosthetic device 20.99
  --dental 97.35
  --eye 97.31
  --facial bone 76.99
  --fallopian tube 66.94
    --with synchronous replacement 66.93
    --joint structures
  --with replacement -- see Revision, joint replacement, by site
  --without replacement
  --ankle 80.07
    --elbow 80.02
    --foot and toe 80.08
    --hand and finger 80.04
    --hip 80.05
    --knee 80.06
    --shoulder 80.01
    --specific site NEC 80.09
    --spine 80.09
    --specified site 80.00
    --unspecified site 80.03
  --wrist 80.03
  --lens 13.8
  --penis (internal) without replacement 64.96
  --Rosen (urethra) 59.99
  --testicular, by incision 62.0
  --urinary sphincter, artificial 58.99
    --with replacement 58.93
  --pseudophakos 13.8
    --pterygium 11.39
      --with corneal graft 11.32
- pulse generator
  --cardiac pacemaker 37.86
  --cardioverter/defibrillator 37.79
  --neurostimulator -- see REMOVAL, neurostimulator, pulse generator
Removal --Cont.
pump assist device, heart 37.64
  with replacement 37.63
  nonoperative 97.44
radioactive material --see Removal, foreign body, by site
redundant skin, eyelid 08.86
rejected organ
kidney 55.53
testis 62.42
reservoir, ventricular (Ommaya) (Rickham) 02.43
  with synchronous replacement 02.42
retained placenta (by)
aspiration curettage 69.52
  D and C 69.02
manual 75.4
retinal implant 14.6
Rheos™ carotid sinus baroreflex activation device 86.05
rhinolith 21.31
rice bodies, tendon sheaths 83.01
  hand 82.01
Roger-Anderson minifixator device (bone) --see category 78.6
root, residual (tooth) (buried) (retained) 23.11
Rosen prosthesis (urethra) 59.99
scleral buckle or implant 14.6
Scribner shunt 39.43
secondary membranous cataract (with iridectomy) 13.65
secundines (by)
aspiration curettage 69.52
  D and C 69.02
manual 75.4
sequestrum --see Sequestrectomy
seton, anus 49.93
Shepard's tube (ear) 20.1
Shirodkar suture, cervix 69.96
shunt
arteriovenous 39.43
  with creation of new shunt 39.42
lumbar-subarachnoid NEC 03.98
pleurothecal 03.98
salpingo-uterine 03.98
spinal (thecal) NEC 03.98
subarachnoid-peritoneal 03.98
subarachnoid-ureteral 03.98
tissue expander (skin) NEC 86.05
  breast 85.96
  toes, supernumerary 86.26
tongue, naturally occurring 12.6
  with synchronous replacement 02.94
tonsil tag 28.4
tooth (by forceps) (multiple) (single) NEC 23.09
  deciduous 23.01
surgical NEC 23.19
  impacted 23.19
  residual root 23.11
  root apex 23.73
  with root canal therapy 23.72

Removal --Cont.
splint 97.88
stent
  bile duct 97.55
  larynx 31.98
  ureteral 97.62
  urethral 97.65
stimociever - see Removal, neurostimulator
subdural
  grids 01.22
  strips 01.22
supernumerary digit(s) 86.26
suture(s) NEC 97.89
  abdominal wall 97.83
  by incision --see Incision, by site
  genital tract 97.79
  head and neck 97.38
  thorax 97.43
  trunk NEC 97.84
symblepharon --see Repair, symblepharon
temporary transvenous pacemaker system --omit code
testis (unilateral) 62.3
  bilateral 62.41
  remaining or solitary 62.42
thrombus 38.00
  with endarterectomy --see Endarterectomy
  abdominal
    artery 38.06
    vein 38.07
  aorta (arch) (ascending) (descending) 38.04
  arteriovenous shunt or cannula 39.49
  bovine graft 39.49
  coronary artery 36.09
  head and neck vessel NEC 38.02
  intracranial vessel NEC 38.01
  lower limb
    artery 38.08
    vein 38.09
  pulmonary (artery) (vein) 38.05
  thoracic vessel NEC 38.05
  upper limb (artery) (vein) 38.03
  tissue expander (skin) NEC 86.05
  breast 85.96
  toes, supernumerary 86.26
Removal --Cont.
trachoma follicles 10.33
T-tube (bile duct) 97.55
tube
appendix 97.53
bile duct (T-tube) NEC 97.55
cholecystostomy 97.54
cranial cavity 01.27
cystostomy 97.63
ear (button) 20.1
gastrostomy 97.51
large intestine 97.53
liver 97.55
mediastinum 97.42
nephrostomy 97.61
pancreas 97.61
eritoneum 97.82
pleural cavity 97.41
pyelostomy 97.61
retroperitoneum 97.81
small intestine 97.52
thoracotomy 97.41
tracheostomy 97.37
tympanostomy 20.1
ureteral splint (stent) 97.62
urethral sphincter, artificial 58.99
with replacement 58.93
urinary sphincter, artificial 58.99
with replacement 58.93
uteincle 20.79
valve
vas deferens 63.85
ventricular (cerebral) 02.43
vascular graft or prosthesis 39.49
ventricular shunt or reservoir 02.43
with synchronous replacement 02.42
Vinke tongs (skull) 02.95
vas deferens 63.85
ventricular (cerebral) 02.43
vascular graft or prosthesis 39.49
ventricular shunt or reservoir 02.43
with synchronous replacement 02.42
with synchronous replacement 02.94
vitreous (with replacement) 14.72
anterior approach (partial) 14.71
open sky technique 14.71
Wagner-Brooker minifixator device (bone)
--see category 78.6
wiring, dental(immobilization device) 97.33
orthodontic 24.8
Renipuncture (percutaneous) 55.92
Renogram 92.03
Renotransplantation NEC 55.69
Note: To report donor source:
cadaver 00.93
live non-related donor 00.92
live related donor 00.91
live unrelated donor 00.92
Reopening --see also Incision, by site
blepharorrhaphy 08.02
canthorrhaphy 08.02
cilia base 08.71

Reopening --Cont.
craniotomy or craniectomy site 01.23
fallopian tube (divided) 66.79
iris in anterior chambers 12.97
laminectomy or laminotomy site 03.02
laparotomy site 54.12
osteotomy site --see also Incision, bone 77.10
facial bone 76.09
tarsorrhaphy 08.02
thoracotomy site (for control of hemorrhage)
(for examination) (for exploration) 34.03
thyroid field wound (for control of hemorrhage)
(for examination) (for exploration) (for removal of hematoma) 06.02
Repacking --see Replacement, pack, by site
Repair
abdominal wall 54.72
adrenal gland 07.44
alveolus, alveolar (process) (ridge) (with graft) (with implant) 24.5
anal sphincter 49.79
artificial sphincter implantation 49.75
revision 49.75
laceration (by suture) 49.71
obstetric (current) 75.62
old 49.79
aneurysm (false) (true) 39.52
by or with
clipping 39.51
coagulation 39.52
coll, NEC (endovascular approach) 39.79
head and neck
bare coils 39.75
bioactive coils 39.76
electrocoagulation 39.52
excision or resection of vessel
--see also Aneurysmectomy, by site
with
anastomosis
--see Aneurysmectomy, with anastomosis, by site
graft replacement
--see Aneurysmectomy, with graft replacement, by site
endovascular graft 39.79
abdominal aorta 39.71
head and neck 39.72
lower extremity artery(s) 39.79
thoracic aorta 39.73
upper extremity artery(s) 39.79
filipuncture 39.52
graft replacement --see Aneurysmectomy, with graft replacement, by site
ligation 39.52
liquid tissue adhesive (glue) 39.79
endovascular approach 39.79
head and neck 39.72
Repair - aneurysm - by or with ---Cont.
methyl methacrylate 39.52
endovascular approach 39.79
head and neck 39.72
occlusion 39.52
endovascular approach 39.79
head and neck 39.72
suture 39.52
trapping 39.52
wiring 39.52
wrapping (gauze) (methyl methacrylate) (plastic) 39.52
coronary artery 36.91
heart 37.32
sinus of Valsalva 35.39
thoracic aorta (dissecting), by fenestration 39.54
anomalous pulmonary venous connection (total)
one-stage 35.82
partial --see specific procedure
total 35.82
anular disc 80.54
with graft or prosthesis 80.53
anulus fibrosus 80.54
with graft or prosthesis 80.53
anus 49.79
laceration (by suture) 49.71
obstetric (current) 75.62
old 49.79
aorta 39.31
aorticopulmonary window 39.59
arteriovenous fistula 39.53
by or with
clipping 39.53
coagulation 39.53
coil, NEC (endovascular approach) 39.79
head and neck vessels
bare coils 39.75
bioactive coils 39.76
division 39.53
excision or resection --see also
Aneurysmectomy, by site
with
anastomosis --see
Aneurysmectomy, with anastomosis, by site
graft replacement
--see Aneurysmectomy, with graft replacement, by site
ligation 39.53
coronary artery 36.99
occlusion 39.53
endovascular approach 39.79
head and neck 39.72
suture 39.53
Repair---Cont.
artery NEC 39.59
by
abdominal aorta 39.71
endovascular approach
head and neck (embolization or occlusion) 39.72
other repair (of aneurysm) 39.79
percutaneous repair of intracranial vessel(s) (for stent insertion) 00.62
Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
percutaneous repair of precerebral (extracranial) vessel(s) (for stent insertion) 00.61
Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
non-coronary percutaneous transluminal angioplasty or atherectomy
Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.
Repair - artery --Cont.
with
patch graft 39.58
with excision or resection of vessel
--see Arteriectomy, with graft replacement, by site
synthetic (Dacron) (Teflon) 39.57
tissue (vein) (autogenous) (homograft) 39.56
suture 39.31
coronary NEC 36.99
by angioplasty --see Angioplasty, coronary
by atherectomy --see Angioplasty, coronary
artificial opening --see Repair, stoma
atrial septal defect 35.71
with
prosthesis (open heart technique) 35.51
closed heart technique 35.52
tissue graft 35.61
combined with repair of valvular and
ventricular septal defects --see Repair, endocardial cushion defect
in total repair of total anomalous pulmonary venous connection 35.82
atrioventricular canal defect (any type) 35.73
with
prosthesis 35.54
tissue graft 35.63
bifid digit (finger) 82.89
bile duct NEC 51.79
laceration (by suture) NEC 51.79
common bile duct 51.71
bladder NEC 57.89
exstrophy 57.86
for stress incontinence --see Repair, stress incontinence
laceration (by suture) 57.81
obstetric (current) 75.61
old 57.89
neck 57.85
blepharophimosis 08.59
blepharoptosis 08.36
by
frontalis muscle technique (with)
fascial sling 08.32
suture 08.31
levator muscle technique 08.34
with resection or advancement 08.33
orbicularis oculi muscle sling 08.36
tarsal technique 08.35
blood vessel NEC 39.59
with
patch graft 39.58
with excision or resection --see Angiectomy, with graft replacement
synthetic (Dacron) (Teflon) 39.57

Repair - blood vessel NEC -with --Cont.
tissue (vein) (autogenous) (homograft) 39.56
resection --see Angiectomy
suture 39.30
coronary artery NEC 36.99
by angioplasty --see Angioplasty, coronary
by atherectomy --see Angioplasty, coronary
peripheral vessel NEC 39.59
by angioplasty 39.50
Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

by atherectomy 39.50
Note: Also use 00.40, 00.41, 00.42, or 00.43 to show the total number of vessels treated. Use code 00.44 once to show procedure on a bifurcated vessel. In addition, use 00.45, 00.46, 00.47, or 00.48 to show the number of vascular stents inserted.

by endovascular approach 39.79
bone NEC --see also Osteoplasty --see category 78.4
by synostosis technique --see Arthrodesis
accessory sinus 22.79
cranium NEC 02.06
with
flap (bone) 02.03
graft (bone) 02.04
for malunion, nonunion, or delayed union of fracture --see Repair, fracture, malunion or nonunion
nasal 21.89
skull NEC 02.06
with
flap (bone) 02.03
graft (bone) 02.04
breast (plastic)--see also Mammaplasty 85.89
broad ligament 69.29
bronchus NEC 33.48
laceration (by suture) 33.41
bunionette (with osteotomy) 77.54
canalculus, lacrimal 09.73


Repair --Cont.
canthus (lateral) 08.59
cardiac pacemaker NEC 37.89
electrode(s) (lead) NEC 37.75
cardioverter/defibrillator (automatic)
  pocket, (skin) (subcutaneous) 37.99
cerebral meninges 02.12
cervix 67.69
  internal os 67.59
  transabdominal 67.51
  transvaginal 67.59
aceration (by suture) 67.61
  obstetric (current) 75.51
  old 67.69
chest wall (mesh) (silastic) NEC 34.79
choroid NEC 14.9
  with retinal repair --see Repair, retina
cisterna chyli 40.69
claw toe 77.57
cleft
  hand 82.82
  laryngotracheal 31.69
  lip 27.54
  palate 27.62
secondary or subsequent 27.63
coarctation of aorta --see Excision, coarctation of aorta
cochlear prosthetic device 20.99
  external components only 95.49
cockup toe 77.58
colostomy 46.43
conjunctiva NEC 10.49
  with scleral repair 12.81
laceration 10.6
  with repair of sclera 12.81
late effect of trachoma 10.49
cornea NEC 11.59
  with
    conjunctival flap 11.53
    transplant --see Keratoplasty
    postoperative dehiscence 11.52
coronary artery NEC 36.99
  by angioplasty --see Angioplasty, coronary
  by atherectomy --see Angioplasty, coronary
cranial NEC 02.06
  with
    flap (bone) 02.03
    graft (bone) 02.04
  cusp, valve --see Repair, heart, valve
  cystocele 70.51
  with graft or prosthesis 70.54
  and rectocele 70.50
  with graft or prosthesis 70.53
dental arch 24.8
diaphragm NEC 34.84
diastasis recti 83.65
Repair --Cont.
diastematomyelia 03.59
ear (external) 18.79
  auditory canal or meatus 18.6
  auricle NEC 18.79
  cartilage NEC 18.79
  laceration (by suture) 18.4
  lop ear 18.79
  middle NEC 19.9
  prominent or protruding 18.5
ectropion 08.49
  by or with
    lid reconstruction 08.44
    suture (technique) 08.42
    thermocauterization 08.41
    wedge resection 08.43
  encephalocele (cerebral) 02.12
  endocardial cushion defect 35.73
  with
    prosthesis (grafted to septa) 35.54
    tissue graft 35.63
  enterocle (female) 70.92
  with graft or prosthesis 70.93
  male 53.9
  enterostomy 46.40
  entropion 08.49
  by or with
    lid reconstruction 08.44
    suture (technique) 08.42
    thermocauterization 08.41
    wedge resection 08.43
  epicanthus (fold) 08.59
  epididymis (and spermatic cord) NEC 63.59
  with vas deferens 63.89
  epiglottis 31.69
  episiotomy
    routine following delivery
      --see Episiotomy
    secondary 75.69
  epispadias 58.45
  esophagus, esophageal NEC 42.89
  fistula NEC 42.84
  stricture 42.85
  extrophy of bladder 57.86
  eye, eyeball 16.89
    multiple structures 16.82
    rupture 16.82
    socket 16.64
    with graft 16.63
  eyebrow 08.89
  eyelid 08.89
    full-thickness 08.85
      involving lid margin 08.84
    laceration 08.81
      full-thickness 08.85
      involving lid margin 08.84
      partial-thickness 08.83
      involving lid margin 08.82

Repair - eyelid ---Cont.
linear 08.81
partial- thickness 08.83
involving lid margin 08.82
retraction 08.38
fallopian tube (with prosthesis) 66.79
by
reanastomosis 66.79
reimplantation into
ovary 66.72
uterus 66.74
suture 66.71
false aneurysm --see Repair, aneurysm
fascia 83.89
by or with
arthroplasty --see Arthroplasty
graft (fascial) (muscle) 83.82
hand 82.72
tendon 83.81
hand 82.79
suture (direct) 83.65
hand 82.46
hand 82.89
by
graft NEC 82.79
fascial 82.72
muscle 82.72
suture (direct) 82.46
joint --see Arthroplasty
filtering bleb (corneal) (scleral) (by excision) 12.82
by
corneal graft --see also Keratoplasty 11.60
scleroectomy 12.82
suture 11.51
with conjunctival flap 11.53
fistula --see also Closure, fistula
anovaginal 70.73
arteriovenous 39.53
clipping 39.53
coagulation 39.53
endovascular approach 39.79
head and neck 39.72
division 39.53
excision or resection --see also
Aneurysmectomy, by site
with
anastomosis--see Aneurysmectomy, with anastomosis, by site
graft replacement
--see Aneurysmectomy, with graft replacement, by site
ligation 39.53
coronary artery 36.99
occlusion 39.53
endovascular approach 39.79
head and neck 39.72
suture 39.53
Repair - fistula ---Cont.
cervicovesical 57.84
cervix 67.62
choledochoduodenal 51.72
colovaginal 70.72
enterovaginal 70.74
enterovesical 57.83
esophagocutaneous 42.84
ileovesical 57.83
intestinovaginal 70.74
intestinovesical 57.83
oroantral 22.71
perirectal 48.93
pleuropericardial 37.49
rectovaginal 70.73
rectovesical 57.83
rectovesicovaginal 57.83
sigmoidovaginal 70.74
sinus
nasal 22.71
of Valsalva 35.39
splenocolic 41.95
urethropерineovesical 57.84
urethovesical 57.84
urethovesicovaginal 57.84
uterovesical 57.84
vagina NEC 70.75
vaginocutaneous 70.75
vaginoenteric NEC 70.74
vaginoileal 70.74
vaginoperineal 70.75
vaginovesical 57.84
vesicocervicovesical 57.84
vesicocolic 57.83
vesicocutaneous 57.84
vesicoenteric 57.83
vesicointestinal 57.83
vesicometrorectal 57.83
vesicoperineal 57.84
vesicorectal 57.83
vesicosigmoidal 57.83
vesicosigmoidovesical 57.83
vesicourethral 57.84
vesicourethrorectal 57.83
vesicouterine 57.84
vesicovaginal 57.84
vulva 71.72
vulvovaginal 48.73
foramen ovale (patent) 35.71
with
prosthesis (open heart technique) 35.51
closed heart technique 35.52
tissue graft 35.61
fracture --see also Reduction, fracture
larynx 31.64
Repair - fracture --Cont.
malunion or nonunion (delayed) NEC
--see category 78.4
with
graft --see Graft, bone
insertion (of)
  bone growth stimulator (invasive)
  --see category 78.9
internal fixation device 78.5
manipulation for realignment--see
  Reduction, fracture, by site, closed
osteotomy
  with
correction of alignment
  --see category 77.3
  with internal fixation device
  --see categories 77.3[78.5]
  with intramedullary rod
  --see categories 77.3[78.5]
replacement arthroplasty
  --see Arthroplasty
sequestrectomy --see category 77.0
Sofield type procedure
  --see categories 77.3 [78.5]
synostosis technique
  --see Arthrodesis
vertebra 03.53
funnel chest (with implant) 34.74
gallbladder 51.91
gastrochisis 54.71
great vessels NEC 39.59
laceration (by suture) 39.30
  artery 39.31
  vein 39.32
hallux valgus NEC 77.59
  resection of joint with prosthetic implant 77.59
hammer toe 77.56
hand 82.89
  with graft or implant 82.79
    fascia 82.72
    muscle 82.72
    tendon 82.79
heart 37.49
  assist system 37.63
  septum 35.70
    with
      prosthesis 35.50
        tissue graft 35.60
      atrial 35.71
        with
          prosthesis (open heart technique) 35.51
            closed heart technique 35.52
          tissue graft 35.61
combined with repair of valvular and ventricular septal defects
  --see Repair, endocardial cushion defect
Repair - heart - septal - atrial --Cont.
in total repair of
tetralogy of Fallot 35.81
total anomalous pulmonary venous connection 35.82
truncus arteriosus 35.83
combined with repair of valvular defect
  --see Repair, endocardial cushion defect
ventricular 35.72
with
  prosthesis (open heart technique) 35.53
  closed heart technique 35.55
  tissue graft 35.62
combined with repair of valvular and atrial septal defects --see Repair, endocardial cushion defect
in total repair of
tetralogy of Fallot 35.81
total anomalous pulmonary venous connection 35.82
truncus arteriosus 35.83
total internal biventricular replacement system 37.52
implantable battery 37.54
implantable controller 37.54
thoracic unit 37.53
transcutaneous energy transfer [TET] device 37.54
valve (cusps) (open heart technique) 35.10
with prosthesis or tissue graft 35.20
aortic (without replacement) 35.11
with
  prosthesis 35.22
  tissue graft 35.21
combined with repair of atrial and ventricular septal defects
  --see Repair, endocardial cushion defect
mitral (without replacement) 35.12
with
  prosthesis 35.24
  tissue graft 35.23
pulmonary (without replacement) 35.13
with
  prosthesis 35.26
  in total repair of tetralogy of Fallot 35.81
  tissue graft 35.25
tricuspid (without replacement) 35.14
with
  prosthesis 35.28
  tissue graft 35.27
hepatic duct 51.79
hernia NEC 53.9
anterior abdominal wall NEC 53.69
  with prosthesis or graft
    laparoscopic 53.63
    other and open 53.69
colostomy 46.42
**Repair - hernia ---Cont.**

- **crural** 53.29
- **cul-de-sac (Douglas’)** 70.92
- **diaphragmatic**
  - abdominal approach
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - thoracic, thoracoabdominal approach 53.80
  - laparoscopic 53.83
  - other and open 53.84
- **epigastric** 53.59
  - with prosthesis or graft 53.69
- **esophageal hiatus**
  - abdominal approach
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - thoracic, thoracoabdominal approach 53.80
  - fascia 83.89
  - hand 82.89
- **femoral (unilateral)** 53.29
  - with prosthesis or graft 53.21
  - bilateral 53.39
  - with prosthesis or graft 53.31
- **Ferguson** 53.00
- **Halsted** 53.00
- **Hill-Allison (hiatal hernia repair, transpleural approach)** 53.80
- **hypogastric** 53.59
  - with prosthesis or graft 53.69
  - incisional 53.51
  - laparoscopic with prosthesis or graft 53.62
  - 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
    - laparoscopic 17.24
  - direct
    - laparoscopic with graft or prosthesis 17.21
    - other and open 53.11
    - with prosthesis or graft 53.14
  - direct and indirect
    - laparoscopic with graft or prosthesis 17.23
    - other and open 53.13
    - with prosthesis or graft 53.16
  - indirect
    - laparoscopic with graft or prosthesis 17.22
    - other and open 53.12
    - with prosthesis or graft 53.15
  - **parahiliac**
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - **paravesical**
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - **parahiliac**
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - **parahiliac**
    - laparoscopic 53.71
    - other and open 53.72
    - unspecified 53.75
  - **parailiostomy** 46.41
  - **parasternal** 53.82
  - **paraumbilical**
    - laparoscopic 53.43
    - with graft or prosthesis 53.42
    - other and open with prosthesis 53.41
    - other open 53.49
  - **pericostostomy** 46.42
  - **perineal (enterocele)** 53.9
  - **preperitoneal** 53.29
  - **pudendal** 53.9
  - **retroperitoneal** 53.9
  - **sciatic** 53.9
  - **scrotal**
    - **repair, hernia, inguinal**
  - **spigelian** 53.59
  - **umbilical**
    - laparoscopic 53.43
    - with graft or prosthesis 53.42
    - other and open with prosthesis 53.41
    - other open 53.49
  - **uveal** 12.39
  - **ventral** 53.59
    - with prosthesis or graft
      - laparoscopic 53.63
      - other and open 53.69
<table>
<thead>
<tr>
<th>Repair</th>
<th>Repair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair hernia - ventral</td>
<td>Repairlop ear</td>
</tr>
<tr>
<td>---Cont.</td>
<td>lung NEC</td>
</tr>
<tr>
<td>incisional 53.51</td>
<td>lymphatic (channel) (peripheral) NEC</td>
</tr>
<tr>
<td>other open with prosthesis or graft 53.61</td>
<td>duct, left (thoracic) NEC</td>
</tr>
<tr>
<td>hydrocele</td>
<td>macrodactyly 82.83</td>
</tr>
<tr>
<td>round ligament 69.19</td>
<td>mallet finger 82.84</td>
</tr>
<tr>
<td>spermatic cord 63.1</td>
<td>mandibular ridge 76.64</td>
</tr>
<tr>
<td>tunica vaginalis 61.2</td>
<td>mastoid (antrum) (cavity) 19.9</td>
</tr>
<tr>
<td>hymen 70.76</td>
<td>meninges (cerebral) NEC 02.12</td>
</tr>
<tr>
<td>hypospadias 58.45</td>
<td>spinal NEC 03.59</td>
</tr>
<tr>
<td>ileostomy 46.41</td>
<td>meningocoele 03.51</td>
</tr>
<tr>
<td>ingrown toenail 86.23</td>
<td>myelomeningocele 03.52</td>
</tr>
<tr>
<td>intestine, intestinal NEC 46.79</td>
<td>meningocoele (spinal) 03.51</td>
</tr>
<tr>
<td>fistula --see Closure, fistula, intestine</td>
<td>cranial 02.12</td>
</tr>
<tr>
<td>laceration</td>
<td>mesentery 54.75</td>
</tr>
<tr>
<td>large intestine 46.75</td>
<td>mouth NEC 27.59</td>
</tr>
<tr>
<td>small intestine NEC 46.73</td>
<td>laceration NEC 27.52</td>
</tr>
<tr>
<td>stoma --see Repair, stoma</td>
<td>muscle NEC 83.87</td>
</tr>
<tr>
<td>inverted uterus NEC 69.29</td>
<td>by</td>
</tr>
<tr>
<td>manual</td>
<td>graft or implant(fascia)(muscle) 83.82</td>
</tr>
<tr>
<td>nonobstetric 69.94</td>
<td>hand 82.72</td>
</tr>
<tr>
<td>obstetric 75.94</td>
<td>tendon 83.81</td>
</tr>
<tr>
<td>obstetrical</td>
<td>hand 82.79</td>
</tr>
<tr>
<td>manual 75.94</td>
<td>suture (direct) 83.65</td>
</tr>
<tr>
<td>surgical 75.93</td>
<td>hand 82.46</td>
</tr>
<tr>
<td>vaginal approach 69.23</td>
<td>transfer or transplantation (muscle) 83.77</td>
</tr>
<tr>
<td>iris (rupture) NEC</td>
<td>hand 82.58</td>
</tr>
<tr>
<td>12.39</td>
<td>hand 82.89</td>
</tr>
<tr>
<td>jejunostomy 46.41</td>
<td>by</td>
</tr>
<tr>
<td>joint (capsule) (cartilage) NEC --see also</td>
<td>graft or implant NEC 82.79</td>
</tr>
<tr>
<td>Arthroplasty 81.96</td>
<td>fascia 82.72</td>
</tr>
<tr>
<td>kidney NEC 55.89</td>
<td>suture (direct) 82.46</td>
</tr>
<tr>
<td>knee (joint) NEC 81.47</td>
<td>transfer or transplantation (muscle) 82.58</td>
</tr>
<tr>
<td>collateral ligaments 81.46</td>
<td>musculotendinous cuff, shoulder 83.63</td>
</tr>
<tr>
<td>cruciate ligaments 81.45</td>
<td>myelomeningocele 03.52</td>
</tr>
<tr>
<td>five-in-one 81.42</td>
<td>nasal</td>
</tr>
<tr>
<td>triad 81.43</td>
<td>septum (perforation) NEC 21.88</td>
</tr>
<tr>
<td>labia --see Repair, vulva</td>
<td>sinus NEC 22.79</td>
</tr>
<tr>
<td>laceration --see Suture, by site</td>
<td>fistula 22.71</td>
</tr>
<tr>
<td>lacrimal system NEC 09.99</td>
<td>nasolabial flaps (plastic) 21.86</td>
</tr>
<tr>
<td>canaliculus 09.73</td>
<td>nasopharyngeal atresia 29.4</td>
</tr>
<tr>
<td>punctum 09.72</td>
<td>nerve (cranial) (peripheral) NEC 04.79</td>
</tr>
<tr>
<td>for eve rison 09.71</td>
<td>old injury 04.76</td>
</tr>
<tr>
<td>laryngostomy 31.62</td>
<td>revision 04.75</td>
</tr>
<tr>
<td>laryngotracheal cleft 31.69</td>
<td>sympathetic 05.81</td>
</tr>
<tr>
<td>larynx 31.69</td>
<td>nipple NEC 85.87</td>
</tr>
<tr>
<td>fracture 31.64</td>
<td>nose (external) (internal) (plastic) NEC</td>
</tr>
<tr>
<td>laceration 31.61</td>
<td>--see also Rhinoplasty 21.89</td>
</tr>
<tr>
<td>leads (cardiac) NEC 37.75</td>
<td>laceration (by suture) 21.81</td>
</tr>
<tr>
<td>ligament --see also Arthroplasty</td>
<td>notched lip 27.59</td>
</tr>
<tr>
<td>broad 69.29</td>
<td>omentum 54.74</td>
</tr>
<tr>
<td>collateral, knee NEC 81.46</td>
<td>omphalocoele</td>
</tr>
<tr>
<td>cruciate, knee NEC 81.45</td>
<td>laparoscopic 53.43</td>
</tr>
<tr>
<td>round 69.29</td>
<td>with graft or prosthesis 53.42</td>
</tr>
<tr>
<td>uterine 69.29</td>
<td>other and open with graft or prosthesis 53.41</td>
</tr>
<tr>
<td>lip NEC 27.59</td>
<td>other open 53.49</td>
</tr>
<tr>
<td>cleft 27.54</td>
<td>laceration (by suture) 27.51</td>
</tr>
<tr>
<td>liver NEC 50.69</td>
<td>liver laceration 50.61</td>
</tr>
</tbody>
</table>
Repair --Cont.

---Cont.

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---Cont.
Repair — Cont.

spina bifida NEC 03.59
meningocele 03.51
myelomeningocele 03.52
spinal (cord) (meninges) (structures) NEC 03.59
meningocele 03.51
myelomeningocele 03.52
spleen 41.95
sternal defect 78.41
stoma
 bile duct 51.79
 bladder 57.22
 bronchus 33.42
 common duct 51.72
 esophagus 42.89
 gallbladder 51.99
 hepatic duct 51.79
 intestine 46.40
   large 46.43
   small 46.41
 kidney 55.89
 larynx 31.63
 rectum 48.79
 stomach 44.69
   laparoscopic 44.68
 thorax 34.79
 trachea 31.74
 ureter 56.62
 urethra 58.49
 stomach NEC 44.69
 laceration (by suture) 44.61
 laparoscopic 44.68
 stress incontinence (urinary) NEC 59.79
   by
      anterior urethropexy 59.79
         Burch 59.5
      cystourethropexy (with levator muscle sling) 59.71
         injection of implant (fat) (collagen) (polytef) 59.72
      paraurethral suspension (Pereyra) 59.6
      perirethral suspension 59.6
      plication of urethrovaginal junction 59.3
      pubococcygeal sling 59.71
      retropubic urethral suspension 59.5
      suprapubic sling 59.4
      tension free vaginal tape 59.79
      urethrovaginal suspension 59.4
      gracilis muscle transplant 59.71
      levator muscle sling 59.71
      subcutaneous tissue (plastic) (without skin graft) 86.89
      laceration (by suture) 86.59
      supracrystal defect (heart) 35.72
      with
         prosthesis (open heart technique) 35.53
            closed heart technique 35.55
         tissue graft 35.62
   by or with
      arthroplasty -- see Arthroplasty
      graft or implant (tendon) 83.81
         fascia 83.82
         hand 82.72
         muscle 83.82
         hand 82.72
      suture (direct) (immediate) (primary)
         -- see also Suture, tendon 83.64
         hand 82.45
      transfer for transplantation (tendon) 83.75
         hand 82.56
      hand 82.86
      by
         graft or implant (tendon) 82.79
         suture (direct) (immediate) (primary)
         -- see also Suture, tendon, hand 82.45
         transfer or transplantation (tendon) 82.56
      hand 82.86
      by
         graft or implant (tendon) 82.79
         suture (direct) (immediate) (primary)
         -- see also Suture, tendon, hand 82.45
         transfer or transplantation (tendon) 82.56
      rotator cuff (direct suture) 83.63
      ruptured NEC 83.88
        hand 82.86
      sheath (direct suture) 83.61
        hand 82.41
      testis NEC 62.69
      tetralogy of Fallot
        partial -- see specific procedure
        total (one-stage) 35.81
      thoracic duct NEC 40.69
      thoracostomy 34.72
      thymus (gland) 07.93
      tongue NEC 25.59
      tooth NEC 23.2
        by
           crown (artificial) 23.41
           filling (amalgam) (plastic) (silicate) 23.2
           inlay 23.3
      total anomalous pulmonary venous connection partial -- see specific procedure
        total (one-stage) 35.82
      trachea NEC 31.79
        laceration (by suture) 31.71
      tricuspid atresia 35.94
      truncus arteriosus
        partial -- see specific procedure
        total (one-stage) 35.83
Repair --Cont.

- tunica vaginalis 61.49
  - laceration (by suture) 61.41
- tympanum --see Tympanoplasty
- ureter NEC 56.89
  - laceration (by suture) 56.82
- ureterocele 56.89
- urethra NEC 58.49
  - laceration (by suture) 58.41
  - obstetric (current) 75.61
  - old 58.49
- meatus 58.47
- urethrocele (anterior colporrhaphy) (female) 70.51
  - with graft or prosthesis 70.54
  - and rectocele 70.50
    - with graft or prosthesis 70.53
- urinary sphincter, artificial (component) 58.99
- urinary stress incontinence --see Repair, stress incontinence
- uterus, uterine 69.49
  - inversion --see Repair, inverted uterus
  - laceration (by suture) 69.41
  - obstetric (current) 75.50
  - old 69.49
- ligaments 69.29
  - by interposition 69.21
  - plication 69.22
- uvula 27.73
  - with synchronous cleft palate repair 27.62
- vagina, vaginal (cuff) (wall) NEC 70.79
  - anterior 70.51
    - with graft or prosthesis 70.54
    - with posterior repair 70.50
      - with graft or prosthesis 70.53
  - cystocele 70.51
    - with graft or prosthesis 70.54
    - and rectocele 70.50
      - with graft or prosthesis 70.53
  - enterocele 70.92
    - with graft or prosthesis 70.93
  - laceration (by suture) 70.71
    - obstetric (current) 75.69
    - old 70.79
  - posterior 70.52
    - with anterior repair 70.50
      - with graft or prosthesis 70.53
  - rectocele 70.52
    - with graft or prosthesis 70.55
    - and cystocele 70.50
      - with graft or prosthesis 70.53
  - urethrocele 70.51
    - with graft or prosthesis 70.54
    - and rectocele 70.50
      - with graft or prosthesis 70.53
  - varicocele 63.1

Repair --Cont.

- vas deferens 63.89
  - by anastomosis 63.82
  - to epididymis 63.83
  - reconstruction 63.82
  - laceration (by suture) 63.81
- vein NEC 39.59
  - by endovascular approach
    - head and neck (embolization or occlusion) 39.72
  - with patch graft 39.58
    - with excision or resection of vessel
      --see Phlebectomy, with graft replacement, by site
      - synthetic (Dacron) (Teflon) 39.57
      - tissue (vein) (autogenous) (homograft) 39.56
- suture 39.32
- ventricular septal defect 35.72
  - with prosthesis (open heart technique) 35.53
  - closed heart technique 35.55
  - in total repair of tetralogy of Fallot 35.81
  - tissue graft 35.62
  - combined with repair of valvular and atrial septal defects --see Repair, endocardial cushion defect
  - in total repair of tetralogy of Fallot 35.81
  - truncus arteriosus 35.83
- vertebral arch defect (spina bifida) 03.59
- vulva NEC 71.79
  - laceration (by suture) 71.71
  - obstetric (current) 75.69
  - old 71.79
- Wirsung's duct 52.99
- wound (skin) (without graft) 86.59
  - abdominal wall 54.63
  - dehiscence 54.61
  - postcataract dehiscence (corneal) 11.52

Replacement

- acetabulum (with prosthesis) 81.52
- ankle, total 81.56
  - revision 81.59
- aortic valve (with prosthesis) 35.22
  - with tissue graft 35.21
- artery --see Graft, artery
  - bag --see Replacement, pack or bag
  - Barton's tongs (skull) 02.94
- bladder
  - with ileal loop 57.87 [45.51]
  - sigmoid 57.87 [45.52]
- sphincter, artificial 58.93
- bronchial device NOS 33.79
Replacement --Cont.

bronchial substance NOS 33.79
bronchial valve(s)
  multiple lobes 33.73
  single lobe 33.71
caliper tongs (skull) 02.94
cannula
  arteriovenous shunt 39.94
  pancreatic duct 97.05
  vessel-to-vessel (arteriovenous) 39.94
cardiac contractility modulation (CCM)
  rechargeable pulse generator only 17.52
  total system 17.51
cardiac resynchronization device
  defibrillator (biventricular defibrillator)
    (BIV ICD) (BIV pacemaker with
    defibrillator) (BIV pacing with
    defibrillator) (CRT- D) (device and one
    or more leads) (total system) 00.51
    left ventricular coronary venous
    lead only 00.52
  pulse generator only 00.54
  pacemaker (biventricular pacemaker)
    (BIV pacemaker) (CRT- P) (device
    and one or more leads) (total
    system) 00.50
    left ventricular coronary venous
    lead only 00.52
  pulse generator only 00.53
cardioider/defibrillator (total system) 37.94
  leads only (electrodes) (sensing)
    (pacing) 37.97
  pulse generator only 37.98
cast NEC 97.13
  lower limb 97.12
  upper limb 97.11

catheter
  bladder (indwelling) 57.95
  cystostomy tube (catheter) 59.94
  ventricular shunt (cerebral) 02.42
  wound 97.15
CCM (cardiac contractility modulation)
  rechargeable pulse generator only 17.52
  total system 17.51
CRT- D (biventricular defibrillator) (BIV ICD)
  (BIV pacemaker with defibrillator) (BIV
  pacing with defibrillator) (cardiac
  resynchronization defibrillator)(device
  and one or more leads) 00.51
  left ventricular coronary venous lead only
    00.52
  pulse generator only 00.54
CRT- P (biventricular pacemaker) (BIV
  pacemaker) (cardiac resynchronization
  pacemaker) (device and one or more
  leads) 00.50
  left ventricular coronary venous lead only
    00.52
  pulse generator only 00.53
Replacement --Cont.

heart
  artificial
  total internal biventricular replacement system 37.52
  implantable battery 37.54
  implantable controller 37.54
  thoracic unit 37.53
  transcutaneous energy transfer [TET] device 37.54
  total internal biventricular replacement system 37.52
  implantable battery 37.54
  implantable controller 37.54
  thoracic unit 37.53
  transcutaneous energy transfer [TET] device 37.54
  valve (with prosthesis) (with tissue graft) 35.20
  aortic (with prosthesis) 35.22
  mitral (with prosthesis) 35.24
  with tissue graft 35.23
  poppet (prosthetic) 35.95
  pulmonary (with prosthesis) 35.26
  with tissue graft 35.25
  in total repair of tetralogy of Fallot 35.81
  tricuspid (with prosthesis) 35.28
  with tissue graft 35.27
  hip (partial) (with fixation device) (with prosthesis) (with traction) 81.52
  acetabulum 81.52
  revision 81.53
  femoral head 81.52
  revision 81.53
  total 81.51
  revision 81.53
  intervertebral disc
  artificial, NOS 84.60
  cervical 84.62
  nucleus 84.61
  partial 84.61
  total 84.62
  lumbar, lumbosacral 84.65
  nucleus 84.64
  partial 84.64
  total 84.65
  thoracic (partial) (total) 84.63
  inverted uterus --see Repair, inverted uterus
  iris NEC 12.39
  kidney, mechanical 55.97
  knee (bicompartamental) (hemijoint) (partial) (total) (tricompartamental) (unicompartamental) 81.54
  revision 81.55
  laryngeal stent 31.93
  leads (electrode(s)) --see Replacement, electrode(s)

Replacement --Cont.

  mechanical kidney 55.97
  mitral valve (with prosthesis) 35.24
  with tissue graft 35.23
  Mulligan hood, fallopian tube 66.93
  muscle stimulator (skeletal) 83.92
  nephrostomy tube 55.93
  neuromuscular --see Implant, neurostimulator, by site
  neurostimulator --see also Implant, neurostimulator, by site
  skeletal muscle 83.92
  pacemaker
  brain --see Implant, neurostimulator, brain
  cardiac device (initial) (permanent)
  dual-chamber device 37.87
  resynchronization
  --see Replacement, CRT-P
  single-chamber device 37.85
  rate responsive 37.86
  electrode(s), cardiac (atrial) (transvenous) (ventricular) 37.76
  epicardium (myocardium) 37.74
  left ventricular coronary venous system 00.52
  gastric --see Implant, neurostimulator, gastric
  intracranial --see Implant, neurostimulator, intracranial
  neural --see Implant, neurostimulator, by site
  peripheral nerve --see Implant, neurostimulator, peripheral nerve
  sacral nerve --see Implant, neurostimulator, sacral nerve
  spine --see Implant, neurostimulator, spine temporary transvenous pacemaker
  system 37.78
  pack or bag
  nose 97.21
  teeth, tooth 97.22
  vagina 97.26
  vulva 97.26
  wound 97.16
  pessary, vagina NEC 97.25
  prosthesis
  acetabulum 81.53
  arm (bioelectric) (cineplastic) (kineplastic) 84.44
  biliary tract 51.99
  cochlear 20.96
  channel (single) 20.97
  multiple 20.98
  elbow 81.97
  extremity (bioelectric) (cineplastic) (kineplastic) 84.40
  lower 84.48
  upper 84.44
Replacement – prosthesis —Cont.
fallopian tube (Mulligan hood) (stent) 66.93
femur 81.53
knee 81.55
leg (bioelectric) (cineplastic) (kinoplast) 84.48
penis (internal) (non-inflatable) 64.95
inflatable (internal) 64.97
pulmonary valve (with prosthesis) 35.26
with tissue graft 35.25
in total repair of tetralogy of Fallot 35.81
pyelostomy tube 55.94
rectal tube 96.09
Rheos™ carotid sinus baroreflex activation device 39.8
sensor (lead)
intracardiac or great vessel hemodynamic monitoring 00.56
shoulder NEC 81.83
partial 81.81
total 81.80
skull plate 02.05
tongs 02.94
spacer (cement) (joint) (methylmethacrylate) 84.56
specified appliance or device NEC 97.29
spinal motion preservation device
facet replacement device(s) 84.84
interspinous process device(s) 84.80
pedicle-based dynamic stabilization device(s) 84.82
splint 97.14
stent bile duct 97.05
fallopian tube 66.93
larynx 31.93
pancreatic duct 97.05
trachea 31.93
stimoceiver — see also Implant, stimoceiver, by site
stimulator carotid sinus 39.8
subdural grids 02.93
strips 02.93
testis in scrotum 62.5
tongs, skull 02.94
tracheal stent 31.93
tricuspid valve (with prosthesis) 35.28
with tissue graft 35.27
tube bile duct 97.05
bladder 57.95
cystostomy 59.94
esophagostomy 97.01
gastrostomy 97.02
large intestine 97.04
nasogastric 97.01

Replacement – tube —Cont.
nephrostomy 55.93
pancreatic duct 97.05
pyelostomy 55.94
rectal 96.09
small intestine 97.03
tracheostomy 97.23
ureterostomy 59.93
ventricular (cerebral) 02.42
umbilical cord, prolapsed 73.92
ureter (with)
bladder flap 56.74
ileal segment implanted into bladder 56.89 [45.51]
ureterostomy tube 59.93
urethral sphincter, artificial 58.93
urinary sphincter, artificial 58.93
valve heart — see also Replacement, heart valve
poppet (prosthetic) 35.95
ventricular (cerebral) 02.42
ventricular shunt (catheter) (valve) 02.42
Vinke tongs (skull) 02.94
vitreous (silicone) 14.75
for retinal reattachment 14.59

Replant, replantation — see also Reattachment
extremity — see Reattachment, extremity
penis 64.45
scalp 86.51
tooth 23.5

Reposition
cardiac pacemaker
  electrode(s) (atrial) (transvenous) (ventricular) 37.75
  pocket 37.79
cardiac resynchronization defibrillator (CRT-D) — see Revision, cardiac
resynchronization defibrillator
  cardiac resynchronization pacemaker (CRT-P) — see Revision, cardiac
resynchronization pacemaker
  cardioverter/defibrillator (automatic) lead(s) (sensing) (pacing) (epicardial patch) 37.75
  pocket 37.79
  pulse generator 37.79
cilia base 98.71
implantable hemodynamic sensor (lead) and monitor device 37.79
iris 12.39
neurostimulator
  leads subcutaneous, without device replacement 86.09
within brain 02.93
within or over gastric nerve 04.92
within or over peripheral nerve 04.92
within or over sacral nerve 04.92
within spine 03.93
Reposition - neurostimulator---Cont.
  pulse generator
    subcutaneous, without device replacement 86.09
  renal vessel, aberrant 39.55
  subcutaneous device pocket NEC 86.09
  tricuspid valve (with plication) 35.14

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
    Duhamel type 48.65
    laparoscopic 48.42
    not otherwise specified 48.40
    open 48.43
alveolar process and palate (en bloc) 27.32
aneurysm --see Aneurysmectomy
aortic valve (for subvalvular stenosis) 35.11
artery --see Arteriectomy
bile duct NEC 51.69
  common duct NEC 51.63
bladder (partial) (segmental) (transvesical) (wedge) 57.6
  complete or total 57.79
  lesion NEC 57.59
  transurethral approach 57.49
  neck 57.59
  transurethral approach 57.49
blood vessel --see Angiectomy
brain 01.59
  by
    stereotactic radiosurgery 92.30
      cobalt 60 92.32
      linear accelerator (LINAC) 92.31
      multi-source 92.32
      particle beam 92.33
      particulate 92.33
      radiosurgery NEC 92.39
      single source photon 92.31
      hemisphere 01.52
    lobe 01.53
breast --see also Mastectomy
  quadrant 85.22
  segmental 85.23
broad ligament 69.19
bronchus (sleeve) (wide sleeve) 32.1
  block (en bloc) (with radical dissection of brachial plexus, bronchus, lobe of lung, ribs, and sympathetic nerves) 32.6
bursa 83.5
  hand 82.31

Resection ---Cont.
cecum (and terminal ileum)
  laparoscopic 17.32
  open and other 45.72
  cerebral meninges 01.51
  chest wall 34.4
  clavicle 77.81
  clitoris 71.4
colon (partial) (segmental) 45.79
  ascending (cecum and terminal ileum)
    laparoscopic 17.32
    open and other 45.72
carcinoma of colon (partial) (segmental) 45.79
  descending (sigmoid)
    laparoscopic 17.36
    open and other 45.76
  for interposition 45.52
  Hartmann
    laparoscopic 17.35
    open and other 45.75
hepatic flexure
  laparoscopic 17.33
  open and other 45.73
laparoscopic 17.39
  left radical (hemicolon)
    laparoscopic 17.35
    open and other 45.75
  multiple segmental
    laparoscopic 17.31
    open and other 45.71
  open and other 45.79
  right radical (hemicolon) (ileocolectomy)
    laparoscopic 17.33
    open and other 45.73
  segmental NEC
  segmental NEC
    laparoscopic 17.39
  Multiple
    laparoscopic 17.31
    open and other 45.71
    open and other 45.79
sigmoid
  laparoscopic 17.36
  open and other 45.76
splenic flexure
  laparoscopic 17.35
  open and other 45.75
total
  laparoscopic 45.81
  open 45.82
  other 45.83
  unspecified 45.83
**Resection** --colon --Cont.

- transverse
  - laparoscopic 17.34
  - open and other 45.74
- conjunctiva, for pterygium 11.39
- corneal graft 11.32
- cornual (fallopian tube) (unilateral) 66.69
  - bilateral 66.63
- diaphragm 34.81
- endaural 20.79
- endorectal (pull-through) (Soave) 48.41
  - combined abdominal, NOS 48.50
    - laparoscopic 48.51
    - open 48.52
    - other 48.59
- esophagus (partial) (subtotal) --see also
  - Esophagectomy 42.41
- total 42.42
- exteriorized intestine --see Resection, intestine, exteriorized
  - fascia 83.44
    - for graft 83.43
    - hand 82.34
    - hand 82.35
    - for graft 82.34
  - gallbladder (total) 51.22
- gastric (partial) (sleeve) (subtotal) NEC
  - --see also Gastroctomy 43.89
  - with anastomosis NEC 43.89
  - esophagogastric 43.5
  - gastroduodenal 43.6
  - gastrojejunal 43.7
  - complete or total NEC 43.99
    - with intestinal interposition 43.91
  - radical NEC 43.99
    - with intestinal interposition 43.91
  - wedge 43.42
  - endoscopic 43.41
- hallux valgus (joint) --see also Bunionectomy
  - with prosthetic implant 77.59
- hepatic
  - duct 51.69
  - flexure (colon)
    - laparoscopic 17.33
    - open and other 45.73
  - infundibula, heart (right) 35.34
- intestine (partial) NEC
  - cecum (with terminal ileum)
    - laparoscopic 17.32
    - open and other 45.72
  - exteriorized (large intestine) 46.04
    - small intestine 46.02
  - for interposition 45.50
    - large intestine 45.52
    - small intestine 45.51
  - hepatic flexure
    - laparoscopic 17.33
    - open and other 45.73

**Resection** --intestine --Cont.

- ileum 45.62
  - with cecum
    - laparoscopic 17.32
    - open and other 45.72
  - laparoscopic 17.39
  - large (partial) (segmental) NEC 45.79
    - for interposition 45.52
  - laparoscopic 17.39
  - multiple segmental
    - laparoscopic 17.31
    - open and other multiple segmental 45.71
  - other 45.79
  - total
    - laparoscopic 45.81
    - open 45.82
    - other 45.83
    - unspecified 45.83
    - unspecified 45.79
  - left hemicolon
    - laparoscopic 17.35
    - open and other 45.75
    - multiple segmental (large intestine)
      - laparoscopic 17.31
      - open and other 45.71
    - small intestine 45.61
    - open and other 45.79
    - right hemicolon
      - laparoscopic 17.33
      - open and other 45.73
    - segmental (large intestine) 45.79
      - laparoscopic 17.39
      - multiple
        - laparoscopic 17.31
        - open and other 45.71
    - small intestine 45.62
    - multiple 45.61
    - sigmoid
      - laparoscopic 17.36
      - open and other 45.76
    - small (partial) (segmental) NEC 45.62
      - for interposition 45.51
      - multiple segmental 45.61
      - total 45.63
    - total
      - large intestine
        - laparoscopic 45.81
        - open 45.82
        - other 45.83
        - unspecified 45.83
      - small intestine 45.63
      - joint structure NEC --see also Arthrectomy 80.90
      - kidney (segmental) (wedge) 55.4
      - larynx --see also Laryngectomy
        - submucous 30.29
      - lesion --see Excision, lesion, by site
      - levator palpebrae muscle 08.33
Resection ---Cont.

ligament --see also Arthroectomy 80.90
  broad 69.19
  round 69.19
  uterine 69.19
lip (wedge) 27.43
liver (partial) (wedge) 50.22
  lobe (total) 50.3
  total 50.4
lung (wedge) NEC 32.29
  endoscopic 32.28
  segmental (any part) 32.39
  thoracoscopic 32.30
  thoracoscopic 32.20
  volume reduction 32.22
  biologic lung volume reduction (BLVR)
    --see category 33.7
meninges (cerebral) 01.51
  spinal 03.4
  mesentery 54.4
muscle 83.45
  extraocular 15.13
    with
    advancement or recession of other eye muscle 15.3
    suture of original insertion 15.13
    levator palpebrae 08.33
    Muller’s, for blepharoptosis 08.35
    orbicularis oculi 08.20
    tarsal, for blepharoptosis 08.35
    for graft 83.43
    hand 82.34
    hand 82.36
    for graft 82.34
ocular --see Resection, muscle, extraocular
myocardium 37.33
nasal septum (submucous) 21.5
nerve (cranial) (peripheral) NEC 04.07
phrenic 04.03
  for collapse of lung 33.31
  sympathetic 05.29
vagus --see Vagotomy
nose (complete) (extended) (partial) (radical) 21.4
omentum 54.4
orbitomaxillary, radical 16.51
ovary --see also Oophorectomy
  wedge 65.22
  laparoscopic 65.24
  palate (bony) (local) 27.31
  by wide excision 27.32
  soft 27.49
pancreas (total) (with synchronous duodenectomy) 52.6
  partial NEC 52.59
  distal (tail) (with part of body) 52.52
  proximal (head) (with part of body) (with synchronous duodenectomy) 52.51
  radical subtotal 52.53
Resection - pancreas ---Cont.
radical (one-stage) (two-stage) 52.7
subtotal 52.53
pancreatoduodenal --see also Pancreatectomy 52.6
pelvic viscera (en masse) (female) 68.8
  male 57.71
penis 64.3
pericardium (partial) (for)
  chronic constrictive pericarditis 37.31
  drainage 37.12
  removal of adhesions 37.31
phreatic nerve 04.03
for collapse of lung 33.31
prostate --see also Prostatectomy
  transurethral (punch) 60.29
pterigium 11.39
radial head 77.83
rectosigmoid --see also Resection, rectum 48.69
rectum (partial) NEC 48.69
  with
  pelvic exenteration 68.8
  transsacral sigmoidectomy 48.61
  abdominoendorectal (combined), NOS 48.50
  laparoscopic 48.51
  open 48.52
  other 48.59
abdominoperineal, NOS 48.50
  laparoscopic 48.51
  open 48.52
  other 48.59
  pull-through NEC 48.49
    Duhamel type 48.65
    laparoscopic 48.42
    not otherwise specified 48.40
    open 48.43
anterior 48.63
  with colostomy (synchronous) 48.62
  Duhamel 48.65
endorectal 48.41
  combined abdominal, NOS 48.50
  laparoscopic 48.51
  open 48.52
  other 48.59
posterior 48.64
  pull-through NEC 48.49
  endorectal 48.41
  laparoscopic 48.42
  not otherwise specified 48.40
  open 48.43
STARR procedure 48.74
submucosal (Soave) 48.41
  combined abdominal, NOS 48.50
  laparoscopic 48.51
  open 48.52
  other 48.59
### ICD-9-CM INDEX TO PROCEDURES (FY10)

#### Resection ---Cont.

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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<td>rib (transaxillary)</td>
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<td>right ventricle (heart), for infundibular stenosis</td>
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<tr>
<td>root (tooth) (apex)</td>
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<tr>
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<tr>
<td>residual or retained</td>
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<td>round ligament</td>
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#### Resection ---Cont.

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<td>vein --see Phlebectomy</td>
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<td>vocal cords (punch)</td>
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#### Respirator, volume-controlled (Bennett) (Byrd) --see Ventilation

#### Restoration

- cardioesophageal angle                                                  | 44.66 |
- laparoscopic                                                             | 44.67 |
- dental NEC                                                               | 23.49 |
  - by application of crown (artificial)                                   |       |
  - insertion of bridge (fixed)                                            |       |
  - removable                                                               |       |
- extremity --see Reattachment, extremity                                  |       |
- eyebrow                                                                  | 08.70 |
  - with graft                                                              | 08.63 |
- eye socket                                                               | 16.64 |
  - with graft                                                              | 16.63 |
- tooth NEC                                                                | 23.2  |
  - by                                                                     |       |
  - crown (artificial)                                                     |       |
  - filling(amalgam)(plastic)(silicate)                                     | 23.2  |
  - inlay                                                                   | 23.3  |

#### Restrictive

- gastric band, laparoscopic                                             | 44.95 |

#### Resurfacing, hip                                                      | 00.86 |
- acetabulum                                                              | 00.87 |
  - with femoral head                                                     | 00.85 |
  - femoral head                                                           | 00.86 |
- with acetabulum                                                          | 00.85 |
- partial NOS                                                              | 00.85 |
  - acetabulum                                                             | 00.87 |
  - femoral head                                                           | 00.86 |
  - total (acetabulum and femoral head)                                    | 00.85 |

#### Resuscitation

- artificial respiration                                                 | 93.93 |
- cardiac                                                                  | 99.60 |
  - cardioversion                                                          | 99.62 |
  - atrial                                                                  | 99.61 |
  - defibrillation                                                         | 99.62 |
  - external massage                                                       | 99.63 |
  - open chest                                                             | 37.91 |
  - intracardiac injection                                                | 37.92 |
  - cardiopulmonary                                                        | 99.60 |
  - endotracheal intubation                                               | 96.04 |
**Resuscitation** -- Cont.
- manual 93.93
- mouth-to-mouth 93.93
- pulmonary 93.93

**Resuture**
- abdominal wall 54.61
- cardiac septum prosthesis 35.95
- chest wall 34.71
- heart valve prosthesis (poppet) 35.95
- wound (skin and subcutaneous tissue) (without graft) NEC 86.59

**Retavase, infusion** 99.10

**Reteplase, infusion** 99.10

**Retightening** (noninvasive)
- external fixator device -- omit code

**Retinaculotomy NEC** -- see also Division, ligament 80.40
- carpal tunnel (flexor) 04.43

**Retraining**
- cardiac 93.36
- vocational 93.85

**Retrogasserian neurotomy** 04.02

**Revascularization**
- cardiac (heart muscle) (myocardium) (direct) 36.10
  - with
    - bypass anastomosis
      - abdominal artery to coronary artery 36.17
    - aortocoronary (catheter stent) (homograft) (prosthesis) (saphenous vein graft) 36.10
      - one coronary vessel 36.11
      - two coronary vessels 36.12
      - three coronary vessels 36.13
      - four coronary vessels 36.14
    - gastroepiploic artery to coronary artery 36.17
    - internal mammary-coronary artery (single vessel) 36.15
      - double vessel 36.16
    - specified type NEC 36.19
    - thoracic artery- coronary artery (single vessel) 36.15
      - double vessel 36.16
    - implantation of artery into heart(muscle) (myocardium) (ventricle) 36.2
      - indirect 36.2
    - specified type NEC 36.39
  - transmyocardial
    - endoscopic 36.33
    - endovascular 36.34
    - open chest 36.31
    - percutaneous 36.34
    - specified type NEC 36.32
    - thoracoscopic 36.33

**Reversal, intestinal segment** 45.50
- large 45.52
- small 45.51

**Revision**
- amputation stump 84.3
  - current traumatic -- see Amputation
- anastomosis
  - biliary tract 51.94
  - blood vessel 39.49
  - gastric, gastrointestinal (with jejunal interposition) 44.4
- intestine (large) 46.94
  - small 46.93
- pleurothecal 03.97
- pyelointestinal 56.72
- salpingothecal 03.97
- subarachnoid-peritoneal 03.97
- subarachnoid-ureteral 03.97
- ureterointestinal 56.72
- ankle replacement (prosthesis) 81.59
- anterior segment (eye) wound (operative) NEC 12.83
- arteriovenous shunt (cannula) (for dialysis) 39.42
- arthroplasty -- see Arthroplasty
- bone flap, skull 02.06
- breast implant 85.93
- bronchostomy 33.42
- bypass graft (vascular) 39.49
  - abdominal - coronary artery 36.17
  - aortocoronary (catheter stent) (with prosthesis) (with saphenous vein graft) (with vein graft) 36.10
    - one coronary vessel 36.11
    - two coronary vessels 36.12
    - three coronary vessels 36.13
    - four coronary vessels 36.14
  - CABG -- see Revision, aortocoronary bypass graft
  - chest tube -- see intercostal catheter
  - coronary artery bypass graft (CABG) -- see Revision, aortocoronary bypass graft, abdominal - coronary artery bypass, and internal mammary - coronary artery bypass (single) 36.15
    - double vessel 36.16
  - cannula, vessel-to-vessel (arteriovenous) 39.94
  - canthus, lateral 08.59
- cardiac pacemaker
  - device (permanent) 37.89
  - electrode(s) (atrial) (transvenous) (ventricular) 37.75
    - pocket 37.79
- cardiac resynchronization defibrillator (CRT-D) device 37.79
  - electrode(s) 37.75
  - pocket 37.79
- cardiac resynchronization pacemaker (CRT-P) device (permanent) 37.89
  - electrode(s) (atrial) (transvenous) (ventricular) 37.75
**Revision - CRT-P --- Cont.**

- pocket 37.79
- cardioverter/defibrillator (automatic) pocket 37.79
- cholecystostomy 51.99
- cleft palate repair 27.63
- colostomy 46.43
- conduit, urinary 56.52
- cystostomy (stoma) 57.22
- disc - see Revision, intervertebral disc
- elbow replacement (prosthesis) 81.97
- enterostomy (stoma) 46.40
- large intestine 46.43
- small intestine 46.41
- enucleation socket 16.64
  - with graft 16.63
- esophagostomy 42.83
- exenteration cavity 16.66
  - with secondary graft 16.65
- extraocular muscle surgery 15.6
- fenestration, inner ear 20.62
- filtering bleb 12.66
- fixation device (broken) (displaced)
  -- see also Fixation, bone, internal 78.50
- flap or pedicle graft (skin) 86.75
- foot replacement (prosthesis) 81.59
- gastric anastomosis (with jejunal
  - interposition) 44.5
- gastric band, laparoscopic 44.96
- gastric port device
  - laparoscopic 44.96
- gastroduodenostomy (with jejunal
  - interposition) 44.5
- gastrointestinal anastomosis (with jejunal
  - interposition) 44.5
- gastrojejunoscopy 44.5
- gastroscopy 44.69
- laparoscopic 44.68
- hand replacement (prosthesis) 81.97
- heart procedure NEC 35.95
- hip replacement NOS 81.53
  - acetalubar and femoral components
    - (total) 00.70
    - acetalubar component only 00.71
    - acetalubar liner and/or femoral head
      - only 00.73
    - femoral component only 00.72
    - femoral head only and/or acetalubar
      - liner 00.73
    - partial
      - acetalubar component only 00.71
      - acetalubar liner and/or femoral
        - head only 00.73
      - femoral component only 00.72
      - femoral head only and/or
        - acetalubar liner 00.73
    - total (acetalubar and femoral
      - components) 00.70
- Holter (-Spitz) valve 02.42

**Revision - - - Cont.**

- intercostal catheter (with lysis of adhesions) 34.04
- thoracoscopic 34.06
- ileal conduit 56.52
- ileostomy 46.41
- intervertebral disc, artificial (partial) (total)
  - NOS 84.69
  - cervical 84.66
  - lumbar, lumbosacral 84.68
  - thoracic 84.67
- Jejunoielos bypass 46.93
- jejunostomy 46.41
- joint replacement
  - acetalubar and femoral components
    - (total) 00.70
  - acetalubar component only 00.71
  - acetalubar liner and/or femoral head
    - only 00.73
  - ankle 81.59
  - elbow 81.97
  - femoral component only 00.72
  - femoral head only and/or acetalubar
    - liner 00.73
  - foot 81.59
- hand 81.97
- hip 81.53
  - acetalubar and femoral components
    - (total) 00.70
  - acetalubar component only 00.71
  - acetalubar liner and/or femoral head
    - only 00.73
  - femoral component only 00.72
  - femoral head only and/or acetalubar
    - liner 00.73
  - partial
    - acetalubar component only 00.71
    - acetalubar liner and/or femoral
      - head only 00.73
    - femoral component only 00.72
    - femoral head only and/or
      - acetalubar liner 00.73
    - total (all components) 00.80
  - knee replacement NOS 81.55
    - femoral component 00.82
    - partial
      - femoral component 00.82
      - patellar component 00.83
      - tibial component 00.81
      - tibial insert 00.84
      - patellar component 00.83
      - tibial component 00.81
      - tibial insert 00.84
    - total (all components) 00.80
  - lower extremity NEC 81.59
    - toe 81.59
    - upper extremity 81.97
    - wrist 81.97

443
<table>
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<th>Procedure/Condition</th>
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<td>Knee replacement (prosthesis) NOS</td>
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<td>Mallet finger</td>
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<td>Orbital implant</td>
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<td>Foot</td>
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<td>Tibial insert</td>
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<td>03.97</td>
</tr>
<tr>
<td>Salpingo-thecal</td>
<td>03.97</td>
</tr>
<tr>
<td>Spinal (thecal) NEC</td>
<td>03.97</td>
</tr>
<tr>
<td>Subarachnoid-peritoneal</td>
<td>03.97</td>
</tr>
<tr>
<td>Subarachnoid-ureteral</td>
<td>03.97</td>
</tr>
<tr>
<td>Ventricular (cerebral)</td>
<td>02.42</td>
</tr>
<tr>
<td>Ventriculoperitoneal</td>
<td></td>
</tr>
<tr>
<td>At peritoneal site</td>
<td>54.95</td>
</tr>
<tr>
<td>At ventricular site</td>
<td>02.42</td>
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</tbody>
</table>
Revision ---Cont.

stapedectomy NEC 19.29
  with incus replacement (homograft)
  (prosthesis) 19.21

stoma
  bile duct 51.79
  bladder (vesicostomy) 57.22
  bronchus 33.42
  common duct 51.72
  esophagus 42.89
  gallbladder 51.99
  hepatic duct 51.79
  intestine 46.40
    large 46.43
    small 46.41
  kidney 55.89
  larynx 31.63
  rectum 48.79
  stomach 44.69
    laparoscopic 44.68
  thorax 34.79
  trachea 31.74
  ureter 56.62
  urethra 58.49
  tack operation 20.79
  toe replacement (prosthesis) 81.59
  tracheostomy 31.74
  tunnel
    pulse generator lead wire 86.99
    with initial procedure --omit code
  tympanoplasty 19.6
  urotero-ileostomy, cutaneous 56.52
  ureterostomy (cutaneous) (stoma) NEC 56.62
    ileal 56.52
  urethrostomy 58.49
  urinary conduit 58.49
  vascular procedure (previous) NEC 39.49
  ventricular shunt (cerebral) 02.42
  vesicostomy stoma 57.22
  wrist replacement (prosthesis) 81.97

Rhinectomy 21.4
Rhinchoeloplasty 27.59
  cleft lip 27.54

Rhinomanometry 89.12
Rhinoplasty (external) (internal) NEC 21.87
  augmentation (with graft) (with synthetic
  implant) 21.85
    limited 21.86
    revision 21.84
    tip 21.86
    twisted nose 21.84
Rhinorrhaphy (external) (internal) 21.81
  for epistaxis 21.09
Rhinoscopy 21.21
Rhinoseptoplasty 21.84
Rhinotomy 21.1
Rhizotomy (radiofrequency) (spinal) 03.1
  acoustic 94.01
  trigeminal 04.02

Rhytidectomy (facial) 86.82
  eyelid
    lower 08.86
    upper 08.87
Rhytidoplasty (facial) 86.82
Ripstein operation (repair of prolapsed rectum) 48.75
Robotic assisted surgery
  endoscopic 17.44
  laparoscopic 17.42
  open 17.41
  other and unspecified 17.49
  percutaneous 17.43
  thoracoscopic 17.45
Rodney Smith operation (radical subtotal
  pancreatectomy) 52.53
Roentgenography --see also Radiography
  cardiac, negative contrast 88.58
Rolling of conjunctiva 10.33
Root
  canal (tooth) (therapy) 23.70
    with
      apicoectomy 23.72
      irrigation 23.71
      resection (tooth) (apex) 23.73
      with root canal therapy 23.72
      residual or retained 23.11
Rotation of fetal head
  forceps (instrumental) (Kielland) (Scanzoni)
    (key-in-lock) 72.4
    manual 73.51
Routine
  chest x-ray 87.44
  psychiatric visit 94.12
Roux- en-Y operation
  bile duct 51.36
  cholecystojejunostomy 51.32
  esophagus (intrathoracic) 42.54
  gastroenterostomy 44.39
  gastrojejunostomy 44.39
  jejunostomy 44.38
  pancreaticojejunostomy 52.96
Roux- Goldthwait operation (repair of
  recurrent patellar dislocation) 81.44
Roux- Herzen- Judine operation
  jejunal loop interposition 42.63
Rubin test (insufflation of fallopian tube) 66.8
Ruiz- Mora operation (proximal
  phalangeectomy for hammer toe) 77.99
Rupture
  esophageal web 42.01
  joint adhesions, manual 93.26
  membranes, artificial 73.09
    for surgical induction of labor 73.01
  ovarian cyst, manual 65.93
Russe operation (bone graft of scaphoid)
  78.04

445
Sacculotomy (tack) 20.79
Sacrectomy (partial) 77.89
  total 77.99
Saemisch operation (corneal section) 11.1
Salpingectomy (bilateral) (total) (transvaginal) 66.51
  with oophorectomy 65.61
  laparoscopic 65.63
  partial (unilateral) 66.69
  with removal of tubal pregnancy 66.62
    for sterilization 66.39
    by endoscopy 66.29
  remaining or solitary tube 66.52
    with ovary 65.62
    laparoscopic 65.64
    unilateral (total) 66.4
      with
        oophorectomy 65.49
        laparoscopic 65.41
        removal of tubal pregnancy 66.62
        partial 66.69
Salpingography 87.85
Salpingohysterectomy 66.74
Salpingo- oophorectomy (unilateral) 65.49
  that by laparoscope 65.41
  bilateral (same operative episode) 65.61
    laparoscopic 65.63
    remaining or solitary tube and ovary 65.62
      laparoscopic 65.64
Salpingo- oophoroplasty 65.73
  laparoscopic 65.76
Salpingo- oophororrhaphy 65.79
Salpingo- oophorostomy 66.72
Salpingo- oophorotomy 65.09
  laparoscopic 65.01
Salpingoplasty 66.79
Salpingorrhaphy 66.71
Salpingosalpingostomy 66.73
Salpingostomy (for removal of non- ruptured ectopic pregnancy) 66.02
Salpingotomy 66.01
Salpingo- uterostomy 66.74
Salter operation (innominate osteotomy) 77.39
Salvage (autologous blood) (intraoperative) (perioperative) (postoperative) 99.00
Sampling, blood for genetic determination of fetus 75.33
Sandpapering (skin) 86.25
Saucerization
  bone--see also Excision, lesion, bone 77.60
  rectum 48.99
Sauer- Bacon operation (abdominoperineal resection) 48.50
  laparoscopic 48.51
  open 48.52
  other 48.59
Scalenectomy 83.45
Scalenotomy 83.19
Scaling and polishing, dental 96.54
Scan, scanning
  C.A.T. (computerized axial tomography) 88.38
    with computer assisted surgery (CAS) 00.31
      abdomen 88.01
      bone 88.38
        mineral density 88.98
      brain 87.03
      cardiac 87.41
      coronary 87.41
      head 87.03
      kidney 87.71
      skeletal 88.38
        mineral density 88.98
      thorax 87.41
    computerized axial tomography (C.A.T.) --see also Scan, C.A.T. 88.38
    C.T. --see Scan, C.T.
      gallium --see Scan, radioisotope
      liver 92.02
    MUGA (multiple gated acquisition)
      --see Scan, radioisotope
      positron emission tomography (PET) --see Scan, radioisotope
      radioisotope
        adrenal 92.09
        bone 92.14
        marrow 92.05
        bowel 92.04
        cardiac output 92.05
        cardiovascular 92.05
        cerebral 92.11
        circulation time 92.05
        eye 95.16
        gastrointestinal 92.04
        head NEC 92.12
        hematopoietic 92.05
        intestine 92.04
        iodine- 131 92.01
        kidney 92.03
        liver 92.02
        lung 92.15
        lymphatic system 92.16
        myocardial infarction 92.05
        pancreatic 92.04
        parathyroid 92.13
        pituitary 92.11
<table>
<thead>
<tr>
<th>Procedure</th>
<th>ICD-9-CM Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scan, scanning</td>
<td>---Cont.</td>
</tr>
<tr>
<td>placenta</td>
<td>92.17</td>
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<tr>
<td>protein-bound iodine</td>
<td>92.01</td>
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<tr>
<td>pulmonary</td>
<td>92.15</td>
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<td>radio-iodine uptake</td>
<td>92.01</td>
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<td>renal</td>
<td>92.03</td>
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<tr>
<td>specified site NEC</td>
<td>92.19</td>
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<td>spleen</td>
<td>92.19</td>
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<td>thyroid</td>
<td>92.01</td>
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<td>total body</td>
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<td>uterus</td>
<td>92.19</td>
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<td>92.03</td>
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<tr>
<td>thermal</td>
<td>--see Thermography</td>
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<tr>
<td>Scapulectomy (partial)</td>
<td>77.81</td>
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<td>77.91</td>
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<td>Scapuloplasty</td>
<td>78.41</td>
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<tr>
<td>Scarcification</td>
<td>conjunctiva</td>
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<tr>
<td>nasal veins (with packing)</td>
<td>21.03</td>
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<td>pericardium</td>
<td>36.39</td>
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<td>pleura</td>
<td>34.6</td>
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<td>chemical</td>
<td>34.92</td>
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<td>with cancer chemotherapy substance</td>
<td>34.92 [99.25]</td>
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<tr>
<td>tetracycline</td>
<td>34.92 [99.21]</td>
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<td>Schanz operation (femoral osteotomy)</td>
<td>77.35</td>
</tr>
<tr>
<td>Schauta (-Amreich) operation (radical vaginal hysterectomy)</td>
<td>68.79</td>
</tr>
<tr>
<td>laparoscopic</td>
<td>68.71</td>
</tr>
<tr>
<td>Schede operation (thoracoplasty)</td>
<td>33.34</td>
</tr>
<tr>
<td>Scheie operation</td>
<td>cautery of sclera</td>
</tr>
<tr>
<td>sclerostomy</td>
<td>12.62</td>
</tr>
<tr>
<td>Schlatter operation (total gastrectomy)</td>
<td>43.99</td>
</tr>
<tr>
<td>Schroeder operation (endocervical excision)</td>
<td>67.99</td>
</tr>
<tr>
<td>Schuchardt operation (nonobstetrical epistosmy)</td>
<td>71.09</td>
</tr>
<tr>
<td>Schwartz operation (simple mastoidectomy)</td>
<td>20.41</td>
</tr>
<tr>
<td>Scintigraphy</td>
<td>--see Scan, radioisotope</td>
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<td>Scintiscan</td>
<td>--see Scan, radioisotope</td>
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<tr>
<td>Sclerectomy (punch) (scissors)</td>
<td>12.65</td>
</tr>
<tr>
<td>for retinal reattachment</td>
<td>14.49</td>
</tr>
<tr>
<td>Holth's</td>
<td>12.65</td>
</tr>
<tr>
<td>trephine</td>
<td>12.61</td>
</tr>
<tr>
<td>with implant</td>
<td>14.41</td>
</tr>
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<td>Scleroplasty</td>
<td>12.89</td>
</tr>
<tr>
<td>Sclerosis</td>
<td>--see Sclerotherapy</td>
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<td>Sclerostomy (Scheie's)</td>
<td>12.62</td>
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<td>Sclerotherapy</td>
<td>esophageal varices (endoscopic)</td>
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<td>hemorrhoids</td>
<td>49.42</td>
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<td>pleura</td>
<td>34.92</td>
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<td>treatment of malignancy (cytotoxic agent)</td>
<td>34.92 [99.25]</td>
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<td>with tetracycline</td>
<td>34.92 [99.21]</td>
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<td>39.92</td>
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<td>vein NEC</td>
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<td>Sclerotomy (exploratory)</td>
<td>12.89</td>
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<td>anterior</td>
<td>12.89</td>
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<tr>
<td>with</td>
<td>iridectomy</td>
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<td>removal of vitreous</td>
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<td>posterior</td>
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<tr>
<td>with</td>
<td>iridectomy</td>
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<td>removal of vitreous</td>
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<td>Scott operation</td>
<td>intestinal bypass for obesity</td>
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<td>for smear or culture</td>
<td>11.21</td>
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<tr>
<td>trachoma follicles</td>
<td>10.33</td>
</tr>
<tr>
<td>Scrotectomy (partial)</td>
<td>61.3</td>
</tr>
<tr>
<td>Scrotoplasty</td>
<td>61.49</td>
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<tr>
<td>Scrotorrhaphy</td>
<td>61.41</td>
</tr>
<tr>
<td>Scrototomy</td>
<td>61.0</td>
</tr>
<tr>
<td>Scrub, posterior nasal (adhesions)</td>
<td>21.91</td>
</tr>
<tr>
<td>Sculping, heart valve</td>
<td>--see Valvuloplasty, heart</td>
</tr>
<tr>
<td>Section</td>
<td>--see also Division and Incision</td>
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<tr>
<td>cesarean</td>
<td>--see Cesarean section</td>
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<td>05.0</td>
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<td>hypophyseal stalk</td>
<td>--see also</td>
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<td>Hypophysectomy, partial</td>
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<td>ligamentum flavum (spine)</td>
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<td>nerve (cranial) (peripheral) NEC</td>
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<td>sympathetic</td>
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<td>trigeminal tract</td>
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<td>Saemisch (corneal)</td>
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<td>spinal ligament</td>
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<td>tooth (impaired)</td>
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<td>Seddon-Brooks operation (transfer of pectoralis major tendon)</td>
<td>83.75</td>
</tr>
<tr>
<td>Semb operation (apicolyis of lung)</td>
<td>33.39</td>
</tr>
<tr>
<td>Senning operation (correction of transposition of great vessels)</td>
<td>35.91</td>
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<tr>
<td>Separation</td>
<td>twins (attached) (conjoined) (Siamese)</td>
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<td>asymmetrical (unequal)</td>
<td>84.93</td>
</tr>
<tr>
<td>symmetrical (equal)</td>
<td>84.92</td>
</tr>
<tr>
<td>Septectomy</td>
<td>atrial (closed)</td>
</tr>
<tr>
<td>open</td>
<td>35.42</td>
</tr>
<tr>
<td>transvenous method (balloon)</td>
<td>35.41</td>
</tr>
<tr>
<td>submucous (nasal)</td>
<td>21.5</td>
</tr>
<tr>
<td>Septoplasty NEC</td>
<td>21.88</td>
</tr>
<tr>
<td>with submucous resection of septum</td>
<td>21.5</td>
</tr>
<tr>
<td>Septorhinoplasty</td>
<td>21.84</td>
</tr>
<tr>
<td>Septostomy (atral) (balloon)</td>
<td>35.41</td>
</tr>
<tr>
<td>Septotomy, nasal</td>
<td>21.1</td>
</tr>
</tbody>
</table>
### Sequestrectomy
- bone: 77.00
- carpals, metacarpals: 77.04
- clavicle: 77.01
- facial: 76.01
- femur: 77.05
- fibula: 77.07
- humerus: 77.02
- nose: 21.32
- patella: 77.06
- pelvic: 77.09
- phalanges (foot): 77.09
- radius: 77.03
- scapula: 77.01
- skull: 01.25
- specified site NEC: 77.09
- tarsals, metatarsals: 77.08
- thorax (ribs): 77.01
- tibia: 77.07
- ulna: 77.03
- vertebrae: 77.09
- nose: 21.32
- skull: 01.25

### Sesamoidectomy
- 77.98

### Setback, ear
- 18.5

### Sever operation
- (division of soft tissue of arm): 83.19

### Severing of blepharorrhaphy
- 08.02

### Sewell operation
- (heart): 36.2

### Sharrard operation
- (iliopsoas muscle transfer): 83.77

### Shaving
- bone: 77.60
- cornea (epithelium): 11.41
- for smear or culture: 11.21
- patella: 77.66

### Shelf operation
- (hip arthroplasty): 81.40

### Shirodkar operation
- (encirclement suture, cervix): 67.59

### Shock therapy
- chemical: 94.24
- electroconvulsive: 94.27
- electrotonic: 94.27
- insulin: 94.24
- subconvulsive: 94.26

### Shortening
- bone (fusion): 78.20
- femur: 78.25
- specified site NEC: 78.2
- tibia: 78.27
- ulna: 78.23
- endopelvic fascia: 69.22
- extraocular muscle NEC: 15.22
- multiple (two or more muscles): 15.4
- eyelid margin: 08.71

### Shunt
- --see also Anastomosis and Bypass, vascular:
- abdominovenous: 54.94
- aorta- coronary sinus: 36.39
- aorta (descending)- pulmonary (artery): 39.0
- aortocarotid: 39.22
- aortoceliac: 39.26
- aortofemoral: 39.25
- aortoiliac: 39.25
- aortoiliofemoral: 39.25
- aortomesenteric: 39.26
- aorto- myocardial (graft): 36.2
- aortorenal: 39.24
- aortosubclavian: 39.22
- apicoaortic: 35.93
- arteriovenous NEC: 39.29
- for renal dialysis (by):
- anastomosis: 39.27
- external cannula: 39.93
- ascending aorta to pulmonary artery (Waterston): 39.0
- axillary- femoral: 39.29
- carotid- carotid: 39.22
- carotid- subclavian: 39.22
- caval- mesenteric: 39.1
- corpora cavernosa- corpus spongiosum: 64.98
- corpora- saphenous: 64.98
- descending aorta to pulmonary artery (Potts- Smith): 39.0
- endolymphatic (- subarachnoid): 20.71
- endolymph- perilymph: 20.71
- extracranial- intracranial (EC- IC): 39.28
- femoroperoneal: 39.29
- femoropopliteal: 39.29
- iliofemoral: 39.25
- ilioliac: 39.25
### Shunt --Cont.

**intestinal**
- large-to-large 45.94
- small-to-large 45.93
- small-to-small 45.91

**left subclavian to descending aorta** (Blandoc- Park) 39.0

**left-to-right (systemic-pulmonary artery)**
- 39.0

**left ventricle (heart) (apex) and aorta** 35.93

**lienorenal** 39.1

**lumbar-subarachnoid (with valve) NEC** 03.79

**mesocaval** 39.1

**peritoneal-jugular** 54.94

**peritoneovenous** 54.94

**pleuroperitoneal** 34.05

**pleuroperitoneal (with valve) NEC** 03.79

**portacaval (double)** 39.1

**portal-systemic** 39.1

**pulmonary-innominate** 39.0

**pulmonary vein to atrium** 39.1

**renorenal** 39.1

**right atrium and pulmonary artery** 35.94

**right ventricle and pulmonary artery (distal)** 35.92

in repair of
- pulmonary artery atresia 35.92
- transposition of great vessels 35.92
- truncus arteriosus 39.83

**salpingothecal (with valve)** 03.79

**semicircular subarachnoid** 20.71

**spinal (thecal) (with valve) NEC** 03.79

**subarachnoid-peritoneal** 02.34

**subarachnoid-peritoneal (with valve)** 02.34

**subarachnoid-ureteral** 02.34

**subclavian-pulmonary** 39.0

**subdural-peritoneal (with valve)** 39.1

**systemic-pulmonary artery** 39.1

**transjugular intrahepatic portosystemic [TIPS]** 39.1

**vena cava to pulmonary artery (Green)** 39.21

**ventricular (cerebral) (with valve)** 02.2

- to
  - abdominal cavity or organ 02.34
  - bone marrow 02.39
  - cervical subarachnoid space 02.2
  - circulatory system 02.32
  - cisterna magna 02.2
  - extracranial site NEC 02.39
  - gallbladder 02.34
  - head or neck structure 02.31
  - intracerebral site NEC 02.2

### Shunt --ventricular to --Cont.

**left ventricle (heart) (apex) and aorta**
- 35.93

**left ventricle (heart) (apex) and aorta (Blalock-Park)** 39.0

**left ventricle (heart) (apex) and aorta (systemic-pulmonary artery)**
- 39.0

**left ventricle (heart) (apex) and aorta (transposition of great vessels)**
- 35.92

**left ventricle (heart) (apex) and aorta (with valve)**
- 02.34

**left ventricle (heart) (apex) and aorta (in repair of)**
- pulmonary artery atresia 35.92
- transposition of great vessels 35.92

**pulmonary-innominate** 39.0

**pulmonary vein to atrium** 35.82

**right atrium and pulmonary artery** 35.94

**right atrium and pulmonary artery (with valve)**
- 02.34

**right ventricle and pulmonary artery (distal)**
- 35.92

**right ventricle and pulmonary artery (distal) (in repair of)**
- pulmonary artery atresia 35.92
- transposition of great vessels 35.92

**transposition of great vessels**
- 35.92

**truncus arteriosus** 35.83

**salpingothecal (with valve)** 03.79

**semicircular subarachnoid** 20.71

**spinal (thecal) (with valve) NEC** 03.79

**subarachnoid-peritoneal**
- 02.34

**subarachnoid-ureteral**
- 02.34

**subclavian-pulmonary** 39.0

**subdural-peritoneal (with valve)** 02.34

**superior mesenteric-caval** 39.1

**systemic-pulmonary artery** 39.0

**transjugular intrahepatic portosystemic [TIPS]** 39.1

**vena cava to pulmonary artery**
- 02.34

**ventricular (cerebral) (with valve)** 02.2

**ventriculoatrial (with valve)** 02.32

**ventriculocaval (with valve)** 02.32

**ventriculocisternal (with valve)** 02.2

**ventriculolumbar (with valve)** 02.39

**ventriculomastoid (with valve)** 02.31

**ventriculonasopharyngeal**
- 02.33

**ventriculopleural (with valve)** 02.33

**sialoadenectomy (parotid) (sublingual)**
- 26.30

**sialoadenolithotomy** 26.0

**sialadenotomy** 26.0

**sialodochoplasty NEC** 26.49

**sialogram** 87.09

**sialolithotomy** 26.0

**sieve, vena cava** 38.7

**sigmoid bladder** 57.87 [45.52]

**sigmoidectomy**
- laparoscopic 17.36
- open and other 45.76

**sigmoidectomy**
- 45.94

**sigmoidobectomy**
- 45.94

**sigmoidorraphy** 46.75

**sigmoidosigmoidostomy**
- proximal to distal segment
  - laparoscopic 17.36
  - open and other 45.76

**sigmoidostomy**
- --see also Colostomy 46.10

**sigmoidotomy** 45.94

**sign language** 93.75

**silver operation** (bunionectomy) 77.59

**sinogram**
- abdominal wall 88.03
- chest wall 87.38
- retroperitoneum 88.14

**sinusectomy** (nasal) (complete) (partial)
- 22.60
- with Caldwell-Luc approach 22.61

---

**ICD-9-CM INDEX TO PROCEDURES (FY10)**

---

**S**
Sinusectomy ---Cont.
  ethmoid 22.63
  frontal 22.42
  maxillary 22.62
    with Caldwell-Luc approach 22.61
  sphenoid 22.64

Sinusotomy (nasal) 22.50
  antrum (intranasal) 22.2
    with external approach (Caldwell-Luc) 22.39
  radical (with removal of membrane lining) 22.31
  ethmoid 22.51
  frontal 22.41
  maxillary (intranasal) 22.2
    external approach (Caldwell-Luc) 22.39
  radical (with removal of membrane lining) 22.31
  multiple 22.53
  perinasal 22.50
  sphenoid 22.52

Sistrunk operation (excision of thyro-glossal cyst) 06.7

Size reduction
  abdominal wall (adipose) (pendulous) 86.83
  arms (adipose) (batwing) 86.83
  breast (bilateral) 85.32
    unilateral 85.31
  buttocks (adipose) 86.83
  skin 86.83
  subcutaneous tissue 86.83
  thighs (adipose) 86.83

Skeletal series (x-ray) 88.31

Sling ---see also Operation, sling
  fascial (fascia lata)
    for facial weakness (trigeminal nerve paralysis) 86.81
    mouth 86.81
    orbicularis (mouth) 86.81
    tongue 25.59
  levator muscle (urethrocystopecty) 59.71
  pubococcygeal 59.71
  rectum (puborectalis) 48.76
  tongue (fascial) 25.59

Slitting
  canaliculus for
    passage of tube 09.42
    removal of streptothrix 09.42
  lens 13.2
  prepuce (dorsal) (lateral) 64.91

Slocum operation (pes anserinus transfer) 81.47

Sluder operation (tonsillectomy) 28.2

Small bowel series (x-ray) 87.63

Smith operation (open osteotomy of mandible) 76.62

Smith-Peterson operation (radiocarpal arthrodesis) 81.25

Smithwick operation (sympathectomy) 05.29

Snaring, polyp, colon (endoscopic) 45.42

Snip, punctum (with dilation) 09.51

Soave operation (endorectal pull-through) 48.41

Sonatotherapy, psychiatric NEC 94.29

Sonneberg operation (inferior maxillary neurectomy) 04.07

Sorondo-Ferre operation (hindquarter amputation) 84.19

Souter operation (iliac crest fasciotomy) 83.14

Spaulding-Richardson operation (uterine suspension) 69.22

Spectrophotometry NEC 89.39
  blood 89.39
  placenta 89.29
  urine 89.29

Spectroscopy
  intravascular 38.23
  near infrared (NIR) 38.23

Speech therapy NEC 93.75

Spermatocoelectomy 63.2

Spermatocystectomy 60.73

Spermatocystotomy 60.72

Sphenoidectomy 22.64

Sphenoidotomy 22.52

Sphincterectomy, anal 49.6

Sphincteroplasty
  anal 49.79
    obstetrical laceration (current) 75.62
    old 49.79
  bladder neck 57.85
  pancreas 51.83
  sphincter of Oddi 51.83

Sphincterorrhaphy, anal 49.71
  obstetrical laceration (current) 75.62
    old 49.79

Sphincterotomy
  anal (external) (internal) 49.59
    left lateral 49.51
    posterior 49.52
  bladder (neck) (transurethral) 57.91
  choledochal 51.82
    endoscopic 51.85
  iris 12.12
  pancreatic 51.82
    endoscopic 51.85
  sphincter of Oddi 51.82
    endoscopic 51.85
  transduodenal ampullary 51.82
    endoscopic 51.85

Spinal anesthesia ---omit code

Spinelli operation (correction of inverted uterus) 75.93

Spineoplasty 81.66

Spirometry (incentive) (respiratory) 89.37

Spivack operation 43.19

Splanchnecotomy 05.29

Splanchnicotomy 05.0
Splenicectomy (complete) (total) 41.5
  partial 41.43
Splenogram 88.64
  radioisotope 92.05
Splenolysis 54.59
  laparoscopic 54.51
Splenopexy 41.95
Splenoplasty 41.95
Splenogram (by splenic arteriography) 88.64
Splenorrhaphy 41.95
Splenotomy 41.2
Splinting
dental (for immobilization) 93.55
  orthodontic 24.7
  musculoskeletal 93.54
  ureteral 56.2
Splitting --see also Division
canalculus 09.52
lacrim papilla 09.51
  spinal cord tracts 03.29
  percutaneous 03.21
  tendon sheath 83.01
  hand 82.01
Spondylosyndesis --see also Fusion, spinal
  81.00
S.P. Rogers operation (knee disarticulation) 84.16
Ssabanejew-Frank operation (permanent gastrostomy) 43.19
Stab, intercostal 34.09
Stabilization, joint --see also Arthrodesis
  patella (for recurrent dislocation) 81.44
Stacke operation (simple masteoidectomy) 20.41
Stallard operation
  (conjunctivocysto-rhinostomy) 09.82
  with insertion of tube or stent 09.83
Stamm (-Kader) operation (temporary gastrostomy) 43.19
Stapedectomy 19.19
  with incus replacement (homograft)
    (prosthesis) 19.11
    revision 19.29
  with incus replacement 19.21
Stapediolysis 19.0
Stapling
gastric varices 44.91
  graft --see Graft
  left atrial appendage 37.36
  vein 39.32
STARR (stapled transanal rectal resection) 48.74
StaXx® FX Structural Kyphoplasty System 81.66
Steinberg operation 44.5
Steindler operation
  fascia stripping (for cavus deformity) 83.14
  flexorplasty (elbow) 83.77
  muscle transfer 83.77
Stereotactic radiosurgery 92.30
  cobalt 92.32
  linear accelerator (LINAC) 92.31
  multi-source 92.32
  particle beam 92.33
  particulate 92.33
  radiosurgery NEC 92.39
  single source photon 92.31
Stereotactic head frame application 93.59
Sterilization
  female --see also specific operation 66.39
  male NEC --see also Ligation, vas deferens 63.70
Sternotomy 77.31
  as operative approach --omit code
  for bone marrow biopsy 41.31
Stewart operation (renal plication with pyeloplasty) 55.87
Stimulation (electronic) --see also Implant, electronic stimulator
  bone growth (percutaneous)
    --see category 78.9
  transcutaneous (surface) 99.86
  cardiac (external) 99.62
    internal 37.91
  carotid sinus 99.64
  CaverMap™ 89.58
  defibrillator
    as part of intraoperative testing --omit code
    catheter based invasive
electro-physiologic testing 37.26
  device interrogation only without
  arrhythmia induction (bedside check) 89.45 - 89.49
  non-invasive programmed electrical stimulation (NIPS) 37.20
electrophysiologic, cardiac
  as part of intraoperative testing --omit code
  catheter based invasive
electro-physiologic testing 37.26
  device interrogation only without
  arrhythmia induction (bedside check) 89.45 - 89.49
  noninvasive programmed electrical stimulation (NIPS) 37.20
Stimulation ---Cont
nerve
cavermap 89.58
penile 89.58
peripheral or spinal cord, transcutaneous 93.39

Stitch, Kelly-Stoeckel (urethra) 59.3

Stomatoplasty 27.59

Stomatorrhaphy 27.52

Stone operation (anoplasty) 49.79

Strapping (non-traction) 93.59

Strassman operation (metroplasty) 69.49

Strayer operation (gastrocnemius recession) 83.72

Stretching
eyelid (with elongation) 08.71
fascia 93.28
foreskin 99.95
iris 12.63
muscle 93.27
nerve (cranial) (peripheral) 04.91
tendon 93.27

Stripping
bone --see also Incision, bone 77.10
carotid sinus 39.8
cranial suture 02.01
fascia 83.14
hand 82.12
membranes for surgical induction of labor 73.1
meninges (cerebral) 01.51
spinal 03.4
saphenous vein, varicose 38.59
subdural membrane (cerebral) 01.51
spinal 03.4
varicose veins (lower limb) 38.59
upper limb 38.53
vocal cords 30.09

Stromeyer-Little operation (hepatotomy) 50.0

Strong operation (unbridling of celiac artery axis) 39.91

Stryker frame 93.59

Study
bone mineral density 88.98
bundle of His 37.29
color vision 95.06
conduction, nerve (median) 89.15
dark adaptation, eye 95.07
electrophysiologic stimulation and recording, cardiac
as part of intraoperative testing --omit code
catheter based invasive electrophysiologic testing 37.26
device interrogation only without arrhythmia induction (bedside check) 89.45 - 89.49
noninvasive programmed electrical stimulation (NIPS) 37.20
Suspension---Cont.
  uterus (abdominal or vaginal approach) 69.22
  vagina 70.77
  with graft or prosthesis 70.78

Suture (laceration)
  abdominal wall 54.63
    secondary 54.61
  adenoind fossa 28.7
  adrenal (gland) 07.44
  aneurysm (cerebral) (peripheral) 39.52
  anus 49.71
    obstetric laceration (current) 75.62
      old 49.79
  aorta 39.31
  aponeurosis (see also Suture, tendon) 83.64
  artery 39.31
    percutaneous puncture closure- omit code
  bile duct 51.79
  bladder 57.81
  obstetric laceration (current) 75.61
  blood vessel NEC 39.30
    artery 39.31
    vein 39.32
  breast (skin) 95.81
  bronchus 33.41
  bursa 83.99
  hand 82.99
  canaliculus 09.73
  cecum 46.75
  cerebral meninges 02.11
    internal os, circlment 67.59
    obstetric laceration (current) 75.51
      old 67.69
  chest wall 34.71
  cleft palate 27.62
  clitoris 71.4
  colon 46.75
  common duct 51.71
  conjunctiva 10.6
  cornea 11.51
    with conjunctival flap 11.53
  corneoscleral 11.51
    with conjunctival flap 11.53
  diaphragm 34.82
  duodenum 46.71
    ulcer (bleeding) (perforated) 44.42
      endoscopic 44.43
  dura mater (cerebral) 02.11
    spinal 03.59
  ear, external 18.4
  enterocele 70.92
    with graft or prosthesis 70.93
  entropion 08.42
  epididymis (and)---Cont.
    vas deferens 63.81
    episiotomy (see Episiotomy)
  esophagus 42.82
  eyeball 16.89
  eyebrow 08.81
  eyelid 08.81
    with entropion or ectropion repair 08.42
  fallopian tube 66.71
    fascia 83.65
    hand 82.46
      to skeletal attachment 83.89
      hand 82.89
  gallbladder 51.91
  ganglion, sympathetic 05.81
  gingiva 24.32
  great vessel 39.30
    artery 39.31
    vein 39.32
  gum 24.32
  heart 37.49
  hepatic duct 51.79
  hymen 70.76
  ileum 46.73
  intestine 46.79
    large 46.75
    small 46.73
  jejunum 46.73
  joint capsule 81.96
    with arthroplasty (see Arthroplasty)
      ankle 81.94
      foot 81.94
      lower extremity NEC 81.95
      upper extremity 81.93
  kidney 55.81
  labia 71.71
  laceration (see Suture, by site)
  larynx 31.61
  ligament 81.96
    with arthroplasty (see Arthroplasty)
      ankle 81.94
      broad 69.29
      Cooper's 54.64
      foot and toes 81.94
      gastrocolic 54.73
      knee 81.95
      lower extremity NEC 81.95
      sacrouterine 69.29
      upper extremity 81.93
      uterine 69.29
  ligation (see Ligation)
    lip 27.51
    liver 50.61
    lung 33.43
    meninges (cerebral) 02.11
      spinal 03.59
    mesentery 54.75
    mouth 27.52
Suture ---Cont.

---muscle 83.65
---hand 82.46
---ocular (oblique) (rectus) 15.7
---nerve (cranial) (peripheral) 04.3
---sympathetic 05.81
---nose (external) (internal) 21.09
---obstetric laceration NEC 75.69
---bladder 75.61
---cervix 75.51
---corpus uteri 75.52
---pelvic floor 75.69
---perineum 75.69
---rectum 75.62
---sphincter ani 75.62
---urethra 75.61
---uterus 75.50
---vagina 75.69
---vulva 75.69
---omentum 54.64
---ovary 65.71
---laparoscopic 65.74
---palate 27.61
---cleft 27.62
---palpebral fissure 08.59
---pancreas 52.95
---pelvic floor 71.71
---obstetric laceration (current) 75.69
---penis 64.41
---peptic ulcer (bleeding) (perforated) 44.40
---pericardium 37.49
---perineum (female) 71.71
---after delivery 75.69
---episiotomy repair ---see Episiotomy
---male 86.59
---periosteum 78.20
---carpal, metacarpal 78.24
---femur 78.25
---fibula 78.27
---humerus 78.22
---pelvic 78.29
---phalanges (foot) (hand) 78.29
---radius 78.23
---specified site NEC 78.29
---tarsal, metatarsal 78.28
---tibia 78.27
---ulna 78.23
---vertebrae 78.29
---peritoneum 54.64
---perineal tissue to symphys pubis 59.5
---pharynx 29.51
---pleura 34.93
---rectum 48.71
---obstetric laceration (current) 75.62
---retina (for reattachment) 14.59
---sacrouterine ligament 68.29
---salivary gland 26.41

Suture ---Cont.

---scalp 86.59
---replantation 86.51
---sclera (with repair of conjunctiva) 12.81
---scrotum (skin) 61.41
---secondary
---abdominal wall 54.61
---episiotomy 75.69
---peritoneum 54.64
---sigmoid 46.75
---skin (mucous membrane) (without graft) 86.59
---with graft ---see Graft, skin
---breast 85.81
---ear 18.4
---eyebrow 08.81
---eyelid 08.81
---nose 21.81
---penis 64.41
---scalp 86.59
---replantation 86.51
---scrotum 61.41
---vulva 71.71
---specified site NEC ---see Repair, by site
---spermatic cord 63.51
---sphincter ani 49.71
---obstetric laceration (current) 75.62
---old 49.79
---spinal meninges 03.59
---spine 41.95
---stomach 44.61
---ulcer (bleeding) (perforated) 44.41
---endoscopic 44.43
---subcutaneous tissue (without skin graft) 86.59
---with graft ---see Graft, skin
---tendon (direct) (immediate) (primary) 83.64
---delayed (secondary) 83.62
---hand NEC 82.43
---flexors 82.42
---hand NEC 82.45
---delayed (secondary) 82.43
---flexors 82.44
---delayed (secondary) 82.42
---ocular 15.7
---rotator cuff 83.63
---sheath 83.61
---hand 82.41
---supraspinatus (rotator cuff repair) 83.63
---to skeletal attachment 83.88
---hand 82.85
---Tenon's capsule 15.7
---testis 62.61
---thyroid gland 06.93
---tongue 25.51
---tonsillar fossa 28.7
---trachea 31.71
---tunica vaginalis 61.41
Suture —Cont.
ulcer (bleeding) (perforated) (peptic) 44.40
duodenum 44.42
endoscopic 44.43
gastric 44.41
endoscopic 44.43
intestine 46.79
skin 86.59
stomach 44.41
endoscopic 44.43
ureter 56.82
urethra 58.41
obstetric laceration (current) 75.61
uterosacral ligament 69.29
uterus 69.41
obstetric laceration (current) 75.50
old 69.49
uvula 27.73
vagina 70.71
obstetric laceration (current) 75.69
old 70.79
vas deferens 63.81
vein 39.32
vulva 71.71
obstetric laceration (current) 75.69
old 71.79
Suture- ligation —see also Ligation
blood vessel —see Ligation, blood vessel
Sweep, anterior iris 12.97
Swenson operation
bladder reconstruction 57.87
proctectomy 48.49
Swinney operation (urethral reconstruction) 58.46
Switch, switching
coronary arteries 35.84
great arteries, total 35.84
Syme operation
ankle amputation through malleoli of tibia and fibula 84.14
urethrotomy, external 58.0
Sympathectomy NEC 05.29
cervical 05.22
cervicothoracic 05.22
lumbar 05.23
periarterial 05.25
presacral 05.24
renal 05.29
thoracolumbar 05.23
tympanum 20.91
Sympatheticotripsy 05.0
Symphysioplasty 77.39
assisting delivery (obstetrical) 73.94
kidney (horseshoe) 55.85
Sympysis, pleural 34.6
Synchondrotomy —see also Division, cartilage 80.40
Syndactylization 86.89
Syndesmotomy —see also Division, ligament 80.40
Synechiotomy
endometrium 68.21
iris (posterior) 12.33
anterior 12.32
Synovectomy (joint) (complete) (partial) 80.70
ankle 80.77
epel 80.72
foot and toe 80.78
hand and finger 80.74
hip 80.75
knee 80.76
shoulder 80.71
specified site NEC 80.79
spine 80.79
tendon sheath 83.42
hand 82.33
wrist 80.73
Syringeing
lacrimal duct or sac 09.43
nasolacrimal duct 09.43
with
dilation 09.43
insertion of tube or stent 09.44
<table>
<thead>
<tr>
<th>Taarnhoj operation</th>
<th>Taarnhoj operation (trigeminal nerve root decompression) 04.41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack operation</td>
<td>Tack operation (sacculotomy) 20.79</td>
</tr>
<tr>
<td>Tactile Guidance System™ [TGS]</td>
<td>Tactile Guidance System™ [TGS] --see category 17.4</td>
</tr>
</tbody>
</table>
| Take-down           | Take-down ---Cont.  
|                    |    vascular anastomosis or bypass 39.49  
|                    |    ventricular shunt (cerebral) 02.43  
|                    | Taleectomy 77.98  
|                    | Talma-Morison operation (omentopexy) 54.74  
| Tamponade           | Tamponade  
|                    |    esophageal 96.06  
|                    |    intrauterine (nonobstetric) 69.91  
|                    |    after delivery or abortion 75.8  
|                    |    antepartum 73.1  
|                    |    vagina 96.14  
|                    |    after delivery or abortion 75.8  
|                    |    antepartum 73.1  
| Tanner operation    | Tanner operation (devascularization of stomach) 44.99  
| Tap                 | Tap  
|                    |    abdomen 54.91  
|                    |    chest 34.91  
|                    |    cisternal 01.01  
|                    |    cranial 01.09  
|                    |    joint 81.91  
|                    |    lumbar (diagnostic) (removal of dye) 03.31  
|                    |    perilymphatic 20.79  
|                    |    spinal (diagnostic) 03.31  
|                    |    subdural (through fontanel) 01.09  
|                    |    thorax 34.91  
| Tarsectomy          | Tarsectomy 08.20  
|                    |    de Grandmont 08.35  
| Tarsoplasty         | Tarsoplasty --see also Reconstruction, eyelid 08.70  
| Tarsorrhaphy        | Tarsorrhaphy (lateral) 08.52  
|                    |    division or severing 08.02  
| Tattooing           | Tattooing  
|                    |    cornea 11.91  
|                    |    skin 86.02  
| Tautening, eyelid for entropion | Tautening, eyelid for entropion 08.42  
| Telemetry           | Telemetry (cardiac) 89.54  
| Teleradiotherapy    | Teleradiotherapy  
|                    |    beta particles 92.25  
|                    |    intra-operative 92.41  
|                    |    Betatron 92.24  
|                    |    cobalt-60 92.23  
|                    |    electrons 92.25  
|                    |    intra-operative 92.41  
|                    |    iodine-125 92.23  
|                    |    linear accelerator 92.24  
|                    |    neutrons 92.26  
|                    |    particulate radiation NEC 92.26  
|                    |    photons 92.24  
|                    |    protons 92.26  
|                    |    radioactive cesium 92.23  
|                    |    radioisotopes NEC 92.23  
| Temperament assessment | Temperament assessment 94.02  
| Temperature gradient study | Temperature gradient study --see also Thermography 88.89  
| Tendinoplasty       | Tendinoplasty --see Repair, tendon
Tendinosuture (immediate) (primary)  
---see also Suture, tendon 83.64  
hand  ---see also Suture, tendon, hand 82.45
Tendolysis 83.91  
hand 82.91
Tendoplasty --see Repair, tendon
Tenectiony 83.39  
eye 15.13  
levator palpebrae 08.33  
multiple (two or more tendons) 15.3  
hand 82.29  
levator palpebrae 08.33  
tendon sheath 83.31  
hand 82.21
Tendolysis (tendon fixation to skeletal attachment) 83.88  
Fowler 82.85  
hand 82.85
Tenolysis 83.91  
hand 82.91
Tenomyoplasty --see also Repair, tendon 83.88  
hand  ---see also Repair, tendon, hand 82.86
Tenomyotomy --see Tenonectomy
Tenonectomy 83.42  
for graft 83.41  
hand 82.32  
hand 82.33  
for graft 82.32
Tenonectomyoplasty --see Repair, tendon
Tenonplasty --see Repair, tendon
Tenoplasty --see also Repair, tendon 83.88  
hand  ---see also Repair, tendon, hand 82.86
Tenorrhaphy --see also Suture, tendon 83.64  
hand  ---see also Suture, tendon, hand 82.45  
to skeletal attachment 83.88  
hand 82.85
Tenosuspension 83.88  
hand 82.86
Tenosuture --see also Suture, tendon 83.64  
hand  ---see also Suture, tendon, hand 82.45  
to skeletal attachment 83.88  
hand 82.85
Tenosynovectomy 83.42  
hand 82.33
Tenotomy 83.13  
Achilles tendon 83.11  
adductor (hip) (subcutaneous) 83.12  
eye 15.12  
levator palpebrae 08.38  
multiple (two or more tendons) 15.4  
hand 82.11  
levator palpebrae 08.38  
pectoralis minor tendon (decompression thoracic outlet) 83.13  
stapedius 19.0  
tensor tympani 19.0
Tenovaginotomy --see Tenotomy
Tensing, orbicularis oculi 08.59

Termination of pregnancy  
by  
---aspiration curettage 69.51  
dilation and curettage 69.01  
hysterectomy --see Hysterectomy  
hysterotomy 74.91  
intra- amniotic injection (saline) 75.0
Test, testing (for)  
14 C-Urea breath 89.39  
auditory function NEC 95.46  
Bender Visual- Motor Gestalt 94.02  
Benton Visual Retention 94.02  
cardiac (vascular)  
---function NEC 89.59  
stress 89.44  
bicycle ergometer 89.43  
---Masters' two-step 89.42  
treadmill 89.41  
Denver developmental (screening) 94.02  
---fetus, fetal  
---nonstress (fetal activity acceleration determinations) 75.34  
oxytocin challenge (contraction stress) 75.35  
sensitivity (to oxytocin) --omit code  
function  
---cardiac NEC 89.59  
---hearing NEC 95.46  
muscle (by)  
---electromyography 93.08  
---manual 93.04  
---neurologic NEC 89.15  
---vestibular 95.46  
---clinical 95.44  
glaucoma NEC 95.26  
---hearing NEC 95.47  
---clinical NEC 95.42  
---intelligence 94.01  
---internal jugular-subclavian venous reflux 89.62  
intracarotid amobarbital (Wada) 89.10  
---Masters' two-step stress (cardiac) 89.42  
muscle function (by)  
---electromyography 93.08  
---manual 93.04  
---neurologic function NEC 89.15  
---neurophysiologic monitoring  
---intra- operative 00.94  
---nocturnal penile tumescence 89.29  
---provocative, for glaucoma 95.26  
---psychologic NEC 94.08  
---psychometric 94.01  
---radio-cobalt B12 Schilling 92.04  
---range of motion 93.05  
---rotation (Bárany chair) (hearing) 95.45  
---sleep disorder function --see categories 89.17-89.18
Stanford- Binet 94.01
ICD-9-CM INDEX TO PROCEDURES (FY10)

Test, testing ---Cont.
Thallium stress (transesophageal pacing) 89.44
tuning fork (hearing) 95.42
Urea breath, (14 C) 89.39
vestibular function NEC 95.46
   thermal 95.44
   Wada (hemispheric function) 89.10
   whispered speech (hearing) 95.42
TEVAP (transurethral electrovaporization of prostate) 60.29
Thalamectomy 01.41
Thalamotomy 01.41
   by stereotactic radiosurgery 92.32
   cobalt 60 92.32
   linear accelerator (LINAC) 92.31
   particle beam 92.33
   particulate 92.33
   radiosurgery NEC 92.39
   single source photon 92.31
Thal operation (repair of esophageal stricture) 42.85
Theleplasty 85.87
Therapy
   Antabuse 94.25
   aqueous oxygen (AO) 00.49
   art 93.89
   aversion 94.33
   behavior 94.33
   Bennett respirator --see category 96.7
   blind rehabilitation NEC 93.78
   Byrd respirator --see category 96.7
   carbon dioxide 94.25
   cobalt-60 92.23
   conditioning, psychiatric 94.33
   continuous positive airway pressure (CPAP) 93.90
   delivered by
   endotracheal tube --see category 96.7
   tracheostomy --see category 96.7
   croupette, croup tent 93.94
   daily living activities 93.83
   for the blind 93.78
   dance 93.89
   desensitization 94.33
   detoxification 94.25
   diversional 93.81
   domestic tasks 93.83
   for the blind 93.78
   Downstream® system 00.49
   educational (bed-bound children)
      (handicapped) 93.82
   electroconvulsive (ECT) 94.27
   electroshock (EST) 94.27
   subconvulsive 94.26
   electrotonic (ETT) 94.27
   encounter group 94.44
   extinction 94.33
Therapy ---Cont.
   family 94.42
   fog (inhalation) 93.94
   gamma ray 92.23
   group NEC 94.44
   for psychosexual dysfunctions 94.41
   hearing NEC 95.49
   heat NEC 93.35
   for cancer treatment 99.85
   helium 93.98
   hot pack(s) 93.35
   hyperbaric oxygen 93.95
   wound 93.59
   hyperthermia NEC 93.35
   for cancer treatment 99.85
   individual, psychiatric NEC 94.39
   for psychosexual dysfunction 94.34
   industrial 93.89
   infrared irradiation 93.35
   inhalation NEC 93.96
      nitric oxide 00.12
   insulin shock 94.24
   intermittent positive pressure breathing (IPPB) 93.91
   IPPB (intermittent positive pressure breathing) 93.91
   leech 99.99
   lithium 94.22
   LITT (laser interstitial thermal therapy) under guidance
   lesion
      brain 17.61
      breast 17.69
      head and neck 17.62
      liver 17.63
      lung 17.69
      prostate 17.69
      thyroid 17.62
   maggots 86.28
   manipulative, osteopathic --see also
      Manipulation, osteopathic 93.67
   manual arts 93.81
   methadone 94.25
   mist (inhalation) 93.94
   music 93.84
   nebulizer 93.94
   neuroleptic 94.23
   nitric oxide 00.12
   occupational 93.83
   oxygen 93.96
      aqueous 00.49
      catalytic 93.96
      hyperbaric 93.95
      wound 93.59
      SuperSaturated 00.49
      wound (hyperbaric) 93.59
   paraffin bath 93.35
Therapy ---Cont.

physical NEC 93.39
combined (without mention of components) 93.38
diagnostic NEC 93.09
play 93.81
psychotherapeutic 94.36
positive and expiratory pressure
--see category 96.7
psychiatric NEC 94.39
drug NEC 94.25
lithium 94.22
radiation 92.29
contact (150 KVP or less) 92.21
deep (200-300 KVP) 92.22
electron, intra-operative 92.41
high voltage (200-300 KVP) 92.22
low voltage (150 KVP or less) 92.21
megavoltage 92.24
orthovoltage 92.22
particle source NEC 92.26
photon 92.24
radioisotope (teleradiotherapy) 92.23
retinal lesion 14.26
superficial (150 KVP or less) 92.21
supervoltage 92.24
radioisotope, radioisotopic NEC 92.29
implantation or insertion 92.27
injection or instillation 92.28
teleradiotherapy 92.23
radium (radon) 92.23
recreational 93.81
rehabilitation NEC 93.89
respiratory NEC 93.99
bi-level 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
endotracheal respiratory assistance
--see category 96.7
intermittent positive pressure breathing
[IPPB] 93.91
negative pressure (continuous) [CNP] 93.99
nitric oxide 00.12
non-invasive positive pressure (NIPPV) 93.90
other continuous invasive (unspecified duration) 96.70
for less than 96 consecutive hours 96.71
for 96 consecutive hours or more 96.72
positive and expiratory pressure [PEEP]
invasive --see category 96.7
non-invasive 93.90

Therapy ---Cont.

root canal 23.70
with
apicoectomy 23.72
irrigation 23.71
shock
chemical 94.24
electric 94.27
subconvulsive 94.26
insulin 94.24
speech 93.75
for correction of defect 93.74
Superoxigenation (SSO2) 00.49
SuperSaturated oxygen 00.49
ultrasound
heat therapy 93.35
hyperthermia for cancer treatment 99.85
physical therapy 93.35
therapeutic --see Ultrasound
ultraviolet light 99.82
Thermocautery --see Cauterization
Thermography 88.89
blood vessel 88.86
bone 88.83
breast 88.85
cerebral 88.81
eye 88.82
lymph gland 88.89
muscle 88.84
ocular 88.82
ostearticular 88.83
specified site NEC 88.89
vein, deep 88.86
Thermokeratoplasty 11.74
Thermosclerectomy 12.62
Thermodry 09.89
Thermosteropy (hot packs) (paraffin bath)
Therapy NEC 93.35
prostate
by
microwave 60.96
radiofrequency 60.97
transurethral microwave thermotherapy
(TUMT) 60.96
transurethral needle ablation (TUNA) 60.97
TUMT (transurethral microwave thermotherapy) 60.96
TUNA (transurethral needle ablation) 60.97
Thiersch operation
anus 49.79
skin graft 86.69
hand 86.62
Thompson operation
clenf lip repair 27.54
correction of lymphedema 40.9
quadricepsplasty 83.86
thumb apposition with bone graft 82.69
Thoracectomy 34.09
for lung collapse 33.34
Thoracentesis 34.91

Thoracocentesis 34.91
Thoracolysis (for collapse of lung) 33.39
Thoracoplasty (anterior) (extrapleural) (paravertebral) (posterolateral) (complete) partial) 33.34
Thoracoscopy, transpleural (for exploration) 34.21
Thoracostomy 34.09 for lung collapse 33.32
Thoracotomy (with drainage) 34.09 as operative approach -- omit code exploratory 34.02
Thoratec® implantable ventricular assist device (IVAD™) 37.66
Thoratec® ventricular assist device (VAD) system 37.66
Three-snip operation, punctum 09.51
Thorombectomy 38.00 with endarterectomy -- see Endarterectomy abdominal artery 38.06 vein 38.07 aorta (arch) (ascending) (descending) 38.04 arteriovenous shunt or cannula 39.49 bovine graft 39.49 coronary artery 38.09 head and neck vessel NEC 38.02 intracranial vessel NEC 38.01 lower limb artery 38.08 vein 38.09 mechanical endovascular head and neck 39.74 pulmonary vessel 38.05 thoracic vessel NEC 38.05 upper limb (artery) (vein) 38.03
Thorombendarterectomy 38.10 abdominal 38.16 aorta (arch) (ascending) (descending) 38.14 coronary artery 36.09 open chest approach 36.03 head and neck NEC 38.12 intracranial NEC 38.11 lower limb 38.18 thoracic NEC 38.15 upper limb 38.13
Thymectomy 07.80 Partial (open) (other) 07.81 thoracoscopic 07.83 Total (open) (other) 07.82 thoracoscopic 07.84 transcervical 07.99
Thyrochondrotomy 31.3
Thyrocricoidectomy 30.29
Thyrocricotomy (for assistance in breathing) 31.1

Thyroidectomy NEC 06.39 by mediastinotomy -- see also
Thyroidectomy, substernal 06.50 with laryngectomy -- see also Laryngectomy complete or total 06.4 substernal (by mediastinotomy) (transsternal route) 06.52 transoral route (lingual) 06.6 lingual (complete) (partial) (subtotal) (total) 06.6 partial or subtotal NEC 06.39 with complete removal of remaining lobe 06.2 submental route (lingual) 06.6 substernal (by mediastinotomy) (transsternal route) 06.51 remaining tissue 06.4 submental route (lingual) 06.6 substernal (by mediastinotomy) (transsternal route) 06.50 complete or total 06.52 partial or subtotal 06.51 transoral route (lingual) 06.6 transsternal route -- see also
Thyroidectomy, substernal 06.50 unilateral (with removal of isthmus) (with removal of portion of other lobe) 06.2

Thyroidorrhaphy 06.93
Thyroidotomy (field) (gland) NEC 06.09 postoperative 06.02
Thyrotomy 31.3 with tantalum plate 31.69
Tirofiban (HCL), infusion 99.20
Toilette skin -- see Debridement, skin or subcutaneous tissue tracheostomy 96.55
Token economy (behavior therapy) 94.33
Tomkins operation (metroplasty) 69.49
Tomography -- see also Radiography abdomen NEC 88.02 cardiac 87.42 computerized axial NEC 88.38 abdomen 88.01 bone 88.38 quantitative 88.98 brain 87.03 cardiac 87.41 coronary 87.41 head 87.03 kidney 87.71 skeletal 88.38 quantitative 88.98 thorax 87.41 head NEC 87.04 kidney NEC 87.72 lung 87.42 optical coherence (intravascular imaging) coronary vessel(s) 38.24 non-coronary vessel(s) 38.25 thorax NEC 87.42
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tongue tie operation</td>
<td>25.91</td>
<td></td>
</tr>
<tr>
<td><strong>Tonography</strong></td>
<td>95.26</td>
<td></td>
</tr>
<tr>
<td><strong>Tonometry</strong></td>
<td>89.11</td>
<td></td>
</tr>
<tr>
<td><strong>Tonsillectomy</strong></td>
<td>28.2</td>
<td>with adenoidectomy 28.3</td>
</tr>
<tr>
<td><strong>Tonsillotomy</strong></td>
<td>28.0</td>
<td></td>
</tr>
<tr>
<td><strong>Torek (-Bevan) operation (orchidopexy)</strong></td>
<td>01.32</td>
<td>(first stage) (second stage) 62.5</td>
</tr>
<tr>
<td><strong>Torkildsen operation</strong></td>
<td>92.2</td>
<td>(ventriculocisternal shunt)</td>
</tr>
<tr>
<td><strong>Torpin operation</strong></td>
<td>70.92</td>
<td>(cul-de-sac resection)</td>
</tr>
<tr>
<td><strong>Toti operation</strong></td>
<td>99.81</td>
<td>(dacryocystorhinostomy)</td>
</tr>
<tr>
<td><strong>Touroff operation</strong></td>
<td>86.83</td>
<td>(ligation of subclavian artery)</td>
</tr>
<tr>
<td><strong>Toxicology</strong></td>
<td></td>
<td>--see Examination, microscopic</td>
</tr>
<tr>
<td><strong>TPN</strong> (total parenteral nutrition)</td>
<td>99.15</td>
<td></td>
</tr>
<tr>
<td><strong>Trabeculectomy ab externo</strong></td>
<td>12.64</td>
<td></td>
</tr>
<tr>
<td><strong>Trabeculodialysis</strong></td>
<td>12.59</td>
<td></td>
</tr>
<tr>
<td><strong>Trabeculotomy ab externo</strong></td>
<td>12.54</td>
<td></td>
</tr>
<tr>
<td><strong>Trachelectomy</strong></td>
<td>67.4</td>
<td></td>
</tr>
<tr>
<td><strong>Trachelopexy</strong></td>
<td>69.22</td>
<td></td>
</tr>
<tr>
<td><strong>Tracheloplasty</strong></td>
<td>67.69</td>
<td></td>
</tr>
<tr>
<td><strong>Trachelorraphy</strong></td>
<td>67.61</td>
<td>(Emmet) (suture)</td>
</tr>
<tr>
<td><strong>Trachothermolysis</strong></td>
<td>75.51</td>
<td>obstetrical</td>
</tr>
<tr>
<td><strong>Trachotomy</strong></td>
<td>69.95</td>
<td>obstetrical                                   73.93</td>
</tr>
<tr>
<td><strong>Tracheocricotomy</strong></td>
<td>31.1</td>
<td>(for assistance in breathing)</td>
</tr>
<tr>
<td><strong>Tracheofissure</strong></td>
<td>31.1</td>
<td></td>
</tr>
<tr>
<td><strong>Tracheography</strong></td>
<td>87.32</td>
<td></td>
</tr>
<tr>
<td><strong>Tracheolaryngotomy</strong></td>
<td>31.1</td>
<td>(emergency) permanent opening 31.29</td>
</tr>
<tr>
<td><strong>Tracheoplasty</strong></td>
<td>31.79</td>
<td>with artificial larynx 31.75</td>
</tr>
<tr>
<td><strong>Tracheorrhaphy</strong></td>
<td>31.71</td>
<td></td>
</tr>
<tr>
<td><strong>Tracheoscopy NEC</strong></td>
<td>31.42</td>
<td>through tracheotomy (stoma)                    31.41</td>
</tr>
<tr>
<td><strong>Tracheostomy</strong></td>
<td>31.21</td>
<td>(emergency) (temporary) (for assistance in breathing) 31.1</td>
</tr>
<tr>
<td><strong>Tracheotomy</strong></td>
<td>31.21</td>
<td>mediastinal                                    31.29</td>
</tr>
<tr>
<td><strong>Tractotomy</strong></td>
<td></td>
<td>percutaneous dilatational other permanent 31.29</td>
</tr>
<tr>
<td><strong>Tracing, carotid pulse with ECG lead</strong></td>
<td>89.56</td>
<td>temporary                                      31.1</td>
</tr>
<tr>
<td><strong>TRAM</strong> (transverse rectus abdominis musculocutaneous flap of breast)</td>
<td>free 85.73</td>
<td>pedicled 85.72</td>
</tr>
<tr>
<td><strong>Traction</strong></td>
<td></td>
<td>with reduction of fracture or dislocation</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>--see Reduction, fracture and Reduction, dislocation</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>adhesive tape (skin) 93.46</td>
</tr>
<tr>
<td><strong>Tractotomy</strong></td>
<td></td>
<td>boot 93.46</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Bryant’s (skeletal) 93.44</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Buck’s 93.46</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>caliper tongs 93.41</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Cortel’s (spinal) 93.42</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Crutchfield tongs 93.41</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>with synchronous insertion of device 02.94</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Dunlop’s (skeletal) 93.44</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Gallows 93.46</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Gardner Wells 93.41</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>with synchronous insertion of device 02.94</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Halo device, skull 93.41</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>with synchronous insertion of device 02.94</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Lyman Smith (skeletal) 93.44</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Manual, intermittent 93.21</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Mechanical, intermittent 93.21</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Russell’s (skeletal) 93.44</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Skeletal NEC 93.44</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Intermittent 93.43</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Skin, limbs NEC 93.46</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Spinal NEC 93.42</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>with synchronous insertion of device 02.94</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Thomas’ splint 93.45</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Traccey tongs 93.41</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>with synchronous insertion of device 02.94</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Tractotomy brain 01.32</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Medulla oblongata 01.32</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Mesencephalon 01.32</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Percutaneous 03.21</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Spinal cord (one-stage) (two-stage) 03.29</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Trigeminal (percutaneous) (radiofrequency) 04.02</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>ADL (activities of daily living) 93.83</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>For the blind 93.78</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Ambulation 93.22</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Braille 93.77</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Crutch walking 93.24</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Dyslexia 93.71</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Dysphasia 93.72</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Esophageal speech (postlaryngectomy) 93.73</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Gait 93.22</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Joint movements 93.14</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Lip reading 93.75</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Moon (blind reading) 93.77</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Orthoptic 95.35</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Prenatal (natural childbirth) 93.37</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Prosthetic or orthotic device usage 93.24</td>
</tr>
<tr>
<td><strong>Training (for) (in)</strong></td>
<td></td>
<td>Relaxation 94.33</td>
</tr>
</tbody>
</table>

461
**Training (for) (in) ---Cont.**
- speech NEC 93.75
- esophageal type 93.73
- for correction of defect 93.74
- use of lead dog for the blind 93.76
- vocational 93.85

**Transactional analysis**
- group 94.44
- individual 94.39

**Transactional analysis --see also Division**
- group 94.44
- individual 94.39

**Transactional analysis --see also Division**
- group 94.44
- individual 94.39

**Transection**
- see also Division
  - artery (with ligation) --see also Division, artery 38.80
  - renal, aberrant (with reimplantation) 39.55
- bone --see also Osteotomy 77.30
  - fallopian tube (bilateral) (remaining) (solitary) 66.39
  - by endoscopy 66.22
  - unilateral 66.92
- isthmus, thyroid 06.91
- muscle 83.19
  - eye 15.13
  - multiple (two or more muscles) 15.3
  - hand 82.19
  - nerve (cranial) (peripheral) NEC 04.03
    - acoustic 04.01
    - root (spinal) 03.1
    - sympathetic 05.0
    - tracts in spinal cord 03.29
    - trigeminal 04.02
    - vagus (transabdominal) --see also Vagotomy 44.00
  - pylorus (with wedge resection) 43.3
  - renal vessel, aberrant (with reimplantation) 39.55
- spinal
  - cord tracts 03.29
  - nerve root 03.1
- tendon 83.13
  - hand 82.11
- uvula 27.71
- vas deferens 63.71
- vein (with ligation) --see also Division, vein 38.80
  - renal, aberrant (with reimplantation) 39.55
  - varicos (lower limb) 38.59

**Transfer, transference ---Cont.**
- finger (to replace absent thumb) (same hand) 82.61
  - to finger, except thumb 82.81
  - opposite hand (with amputation) 82.69 [84.01]
  - muscle origin 83.77
  - hand 82.58
  - nerve (cranial) (peripheral) (radial anterior) (ulnar) 04.6
  - pedicle graft 86.74
  - pes anserinus (tendon) (repair of knee) 81.47
  - tarsocutaneous flap, from opposing lid 08.64
  - tendon 83.75
  - hand 82.56
  - pes anserinus (repair of knee) 81.47
  - toe-to-thumb (free) (pedicle) (with amputation) 82.69 [84.11]

**Transfixion**
- see also Fixation
- iris (bombe) 12.11

**Transfusion (of)** 99.03
- antihemophilic factor 99.06
- antivenin 99.16
- autologous blood
  - collected prior to surgery 99.02
  - intraoperative 99.00
  - perioperative 99.00
  - postoperative 99.00
  - previously collected 99.02
  - salvage 99.00
- blood (whole) NOS 99.03
- expander 99.08
- surrogate 99.09
- bone marrow 41.00
  - allogeneic 41.03
  - with purging 41.02
  - allograft 41.03
  - with purging 41.02
  - autograft 41.01
  - with purging 41.09
  - autologous 41.01
  - with purging 41.09
- coagulation factors 99.06
- Dextran 99.08
- exchange 99.01
  - intraperitoneal 75.2
  - in utero (with hysterotomy) 75.2
- exsanguination 99.01
- gamma globulin 99.14
- granulocytes 99.09
- hemodilution 99.03
- intrauterine 75.2
- packed cells 99.04
- plasma 99.07
- platelets 99.05
- replacement, total 99.01
- serum NEC 99.07
Transfusion (of) ---Cont.
  substitution 99.01
  thrombocytes 99.05

Transillumination
  nasal sinuses 89.35
  skull (newborn) 89.16

Translumbar aortogram 88.42

Transplant, transplantation
  Note: To report donor source:
    cadaver 00.93
    live non-related donor 00.92
    live related donor 00.91
    live unrelated donor 00.92
  artery 39.59
    renal, aberrant 39.55
  autotransplant --see Reimplantation
  blood vessel 39.59
    renal, aberrant 39.55
  bone --see also Graft, bone 78.00
    marrow 41.00
      allogeneic 41.03
      with purging 41.02
      allograft 41.03
      with purging 41.02
      autograft 41.01
      with purging 41.09
      autologous 41.01
      with purging 41.09
    stem cell
      allogeneic (hematopoietic) 41.05
      with purging 41.08
      autologous (hematopoietic) 41.04
      with purging 41.07
    cord blood 41.06
    stem cell
      allogeneic (hematopoietic) 41.05
      with purging 41.08
      autologous (hematopoietic) 41.04
      with purging 41.07
    cord blood 41.06

combined heart- lung 33.6
  conjunctiva, for ptterygium 11.39
  corneal --see also Keratoplasty 11.60
  dura 02.12
  fascia 83.82
    hand 82.72
  finger (replacing absent thumb) (same hand) 82.61
    to
      finger, except thumb 82.81
      opposite hand (with amputation) 82.69 [84.01]
  gracilis muscle (for) 83.77
    anal incontinence 49.74
    urethrovessical suspension 59.71
  hair follicles
    eyebrow 08.63
    eyelid 08.63
    scalp 86.64

Transplant, transplantation ---Cont.
  heart (orthotopic) 37.51
    combined with lung 33.6
  ileal stoma to new site 46.23
  intestine 46.97
  Island of Langerhans (cells) 52.86
    allotransplantation of cells 52.85
    autotransplantation of cells 52.84
    heterotransplantation 52.85
    homotransplantation 52.84
  kidney NEC 55.69
  liver 50.59
    auxiliary (permanent) (temporary)
      (recipient's liver in situ) 50.51
    cells into spleen via percutaneous
catheterization 38.91
  lung 33.50
    bilateral 33.50
    combined with heart 33.6
    double 33.52
    single 33.51
    unilateral 33.51
  lymphatic structure(s) (peripheral) 40.9
  mammary artery to myocardium or
  ventricular wall 36.2
  muscle 83.77
    gracilis (for) 83.77
      anal incontinence 49.74
      urethrovessical suspension 59.71
    hand 82.58
    temporalis 83.77
      with orbital exenteration 16.59
  nerve (cranial) (peripheral) 04.6
  ovary 65.92
  pancreas 52.80
    heterotransplant 52.83
    homotransplant 52.82
  Island of Langerhans (cells) 52.86
    allotransplantation of cells 52.85
    autotransplantation of cells 52.84
    heterotransplantation 52.85
    homotransplantation 52.84
    reimplantation 52.81
  pes anserinus(tendon)(repair of knee) 81.47
  renal NEC 55.69
    vessel, aberrant 39.55
    salivary duct opening 26.49
    skin --see Graft, skin
    spermatic cord 63.53
    spleen 41.94
    stem cells
      allogeneic (hematopoietic) 41.05
      with purging 41.08
      autologous (hematopoietic) 41.04
      with purging 41.07
    cord blood 41.06
  pes anserinus (repair of knee) 81.47
Transplant, transplantation - tendon --Cont.
  superior rectus (blepharoptosis) 08.36
  testis to scrotum 62.5
  thymus 07.94
  thyroid tissue 06.94
  toe (replacing absent thumb) (with amputation) 82.69 [84.11]
  to finger, except thumb 82.81 [84.11]
  tooth 23.5
  ureter to bladder 56.74
  ileum (external diversion) 56.51
  internal diversion only 56.71
  intestine 56.71
  skin 56.61
  vein (peripheral) 39.59
  renal, aberrant 39.55
  vitreous 14.72
  anterior approach 14.71

Transposition
  extraocular muscles 15.5
  eyelash flaps 08.63
  eye muscle (oblique) (rectus) 15.5
  finger (replacing absent thumb) (same hand) 82.61
  to finger, except thumb 82.81
  opposite hand (with amputation) 82.69 [84.01]
  interatrial venous return 35.91
  jejunal (Henley) 43.81
  joint capsule --see also Arthroplasty 81.96
  muscle NEC 83.79
  extraocular 15.5
  hand 82.59
  nerve (cranial) (peripheral) (radial) anterior (ulnar) 04.6
  nipple 85.86
  pterygium 11.31
  tendon NEC 83.76
  hand 82.57
  vocal cords 31.69

Transureteroureterostomy 56.75

Transversostomy --see also Colostomy 46.10

Trapping, aneurysm (cerebral) 39.52

Trauner operation (lingual sulcus extension) 24.91

Trephination, trephining
  accessory sinus --see Sinusotomy 12.89
  cranium 01.24
  nasal sinus --see Sinusotomy 12.61

Trial (failed) forceps 73.3

Tudor "rabbit ear" operation (anterior urethropexy) 59.79

Tuffier operation
  apicectomy of lung 33.39
  vaginal hysterectomy 68.59
  laparoscopically assisted (LAVH) 68.51
  TULIP (transurethral ultrasound guided laser induced proctectomy) 60.21
  TUNA (transurethral needle ablation) of prostate 60.97
  TUMT (transurethral microwave thermotherapy) of prostate 60.96

Tunnel, subcutaneous (antethoracic) 42.86
  esophageal 42.68
  with anastomosis --see Anastomosis, esophagus, antethoracic 42.68
  pulse generator lead wire 86.99
  with initial procedure --omit code

Turbinate (complete) (partial) NEC 21.69
  by cryosurgery 21.61
  diathermy 21.61
  with sinusectomy --see Sinusectomy

Turco operation (release of joint capsules in clubfoot) 80.48

TURP (transurethral resection of prostate) 60.29

Tylectomy (breast) (partial) 85.21

Tympanectomy 20.59
  with tympanoplasty --see Tympanoplasty

Tympanogram 95.41

Tympanomastoidectomy 20.42

Tympanoplasty (type I) (with graft) 19.4
  with
    air pocket over round window 19.54
    fenestra in semicircular canal 19.55
    graft against
      incus or malleus 19.52
    mobile and intact stapes 19.53
    incudostapediopexy 19.52
  epitympanic, type I 19.4
  revision 19.6
  type
    II (graft against incus or malleus) 19.52
    III (graft against mobile and intact stapes) 19.53
    IV (air pocket over round window) 19.54
    V (fenestra in semicircular canal) 19.55

Tympanosympathectomy 20.91

Tympanotomy 20.09
  with intubation 20.01
**Uchida operation** (tubal ligation with or without fimbriectomy) **66.32**

**UFR** (uroflowmetry) **89.24**

**Ultrafiltration** **99.78**
  - hemodialfiltration **39.95**
  - hemodialysis (kidney) **39.95**
  - removal, plasma water **99.78**
  - therapeutic plasmapheresis **99.71**

**Ultrasonography**
  - abdomen **88.76**
  - aortic arch **88.74**
  - biliary tract **88.74**
  - breast **88.73**
  - deep vein thrombosis **88.77**
  - digestive system **88.74**
  - eye **95.13**
  - head and neck **88.71**
  - heart **88.72**
  - intestine **88.74**
  - intravascular --see Ultrasound, intra-vascular (IVUS)
    - lung **88.73**
    - midline shift, brain **88.71**
    - multiple sites **88.79**
    - peripheral vascular system **88.77**
    - retroperitoneum **88.76**
    - thorax NEC **88.73**
    - therapeutic --see Ultrasound
      - total body **88.79**
      - urinary system **88.75**
      - uterus **88.79**
      - gravid **88.78**

**Ultrasound**
  - diagnostic --see Ultrasonography
  - fragmentation (of)
    - cataract (with aspiration) **13.41**
    - urinary calculus, stones (Kock pouch) **59.95**
    - heart
      - intracardiac (heart chambers)(ICE) **37.28**
      - intravascular (coronary vessels)(IVUS) **99.24**
    - non-invasive **88.72**
    - inner ear **20.79**
  - intravascular (IVUS) \( V^H \text{IVUS} \) **00.29**
    - aorta **00.22**
    - aortic arch **00.22**
    - cerebral vessel, extracranial **00.21**
    - coronary vessel **00.24**
    - intrathoracic vessel **00.22**
    - other specified vessel **00.28**
    - peripheral vessel **00.23**
    - renal vessel **00.25**
    - vena cava (inferior) (superior) **00.22**

**Ultrasound--Cont.**
  - therapeutic
    - head **00.01**
    - heart **00.02**
    - neck **00.01**
    - other therapeutic ultrasound **00.09**
    - peripheral vascular vessels **00.03**
    - vessels of head and neck **00.01**
  - therapy **93.35**
  - VH\textsuperscript{TM} IVUS --see Ultrasound, intravascular, by site
  - virtual histology intravascular ultrasound
    --see Ultrasound, intravascular, by site

**Umbilicectomy** **54.3**

**Unbridling**
  - blood vessel, peripheral **39.91**
  - celiac artery axis **39.91**

**Uncovering** --see Incision, by site

**Undercutting**
  - hair follicle **86.09**
  - perianal tissue **49.02**

**Unroofing** --see also Incision, by site
  - external
    - auditory canal **18.02**
    - ear NEC **18.09**
    - kidney cyst **55.39**

**UPP** (urethral pressure profile) **89.25**

**Upper GI series** (x-ray) **87.62**

**UPPP** (uvulopalatopharyngoplasty) **27.69** [29.4]

**Uranoplasty** (for cleft palate repair) **27.62**

**Uranorrhaphy** (for cleft palate repair) **27.62**

**Uranostaphylorrhaphy** **27.62**

**Urban operation** (mastectomy)(unilateral) **85.47**
  - bilateral **85.48**

**Ureterectomy** **56.40**
  - with nephrectomy **55.51**
  - partial **56.41**
  - total **56.42**

**Ureterecocystostomy** **56.71**

**Ureteroecelectomy** **56.41**

**Ureterocolostomy** **56.71**

**Ureterocystostomy** **56.74**

**Ureteroenterostomy** **56.71**

**Ureterolithotomy** **56.2**

**Ureterostomy** **59.02**
  - with freeing or repositioning of ureter **59.02**
  - laparoscopic **59.03**

**Ureteroneocystostomy** **56.74**

**Ureteropexy** **56.85**

**Ureteroplasty** **56.89**

**Ureteroplication** **56.89**
<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ureteroproctostomy</td>
<td>56.71</td>
</tr>
<tr>
<td>Ureteropyelography (intravenous) (diuretic infusion)</td>
<td>87.73</td>
</tr>
<tr>
<td>percutaneous</td>
<td>87.75</td>
</tr>
<tr>
<td>retrograde</td>
<td>87.74</td>
</tr>
<tr>
<td>Ureteropyeloplasty</td>
<td>55.87</td>
</tr>
<tr>
<td>Ureteropyelostomy</td>
<td>55.86</td>
</tr>
<tr>
<td>Ureterorrhaphy</td>
<td>56.82</td>
</tr>
<tr>
<td>Ureteroscopy</td>
<td>56.31</td>
</tr>
<tr>
<td>with biopsy</td>
<td>56.33</td>
</tr>
<tr>
<td>Ureterosigmoidostomy</td>
<td>56.71</td>
</tr>
<tr>
<td>Ureterostomy (cutaneous) (external) (tube)</td>
<td></td>
</tr>
<tr>
<td>ileal</td>
<td>56.51</td>
</tr>
<tr>
<td>closure</td>
<td>56.83</td>
</tr>
<tr>
<td>Ureterotomy</td>
<td>56.2</td>
</tr>
<tr>
<td>Ureteroureterostomy (crossed)</td>
<td>56.75</td>
</tr>
<tr>
<td>lumbar</td>
<td>56.41</td>
</tr>
<tr>
<td>resection with end-to-end anastomosis</td>
<td>56.41</td>
</tr>
<tr>
<td>spatulated</td>
<td>56.41</td>
</tr>
<tr>
<td>Urethral catheterization, indwelling</td>
<td>57.94</td>
</tr>
<tr>
<td>Urethral pressure profile (UPP)</td>
<td>89.25</td>
</tr>
<tr>
<td>Urethrectomy (complete) (partial) (radical)</td>
<td>58.39</td>
</tr>
<tr>
<td>with</td>
<td></td>
</tr>
<tr>
<td>complete cystectomy</td>
<td>57.79</td>
</tr>
<tr>
<td>pelvic exenteration</td>
<td>68.8</td>
</tr>
<tr>
<td>radical cystectomy</td>
<td>57.71</td>
</tr>
<tr>
<td>Urethrocytography (retrograde) (voiding)</td>
<td>87.76</td>
</tr>
<tr>
<td>Urethroctopexy (by)</td>
<td>59.79</td>
</tr>
<tr>
<td>levator muscle sling</td>
<td>59.71</td>
</tr>
<tr>
<td>retropubic suspension</td>
<td>59.5</td>
</tr>
<tr>
<td>suprapubic suspension</td>
<td>59.4</td>
</tr>
<tr>
<td>Urethrolithotomy</td>
<td>58.0</td>
</tr>
<tr>
<td>Urethrolysis</td>
<td>58.5</td>
</tr>
<tr>
<td>Urethropyex</td>
<td>58.49</td>
</tr>
<tr>
<td>anterior</td>
<td>59.79</td>
</tr>
<tr>
<td>Urethraplasty</td>
<td>58.49</td>
</tr>
<tr>
<td>augmentation</td>
<td>59.79</td>
</tr>
<tr>
<td>collagen implant</td>
<td>59.72</td>
</tr>
<tr>
<td>fat implant</td>
<td>59.72</td>
</tr>
<tr>
<td>injection (endoscopic) of implant into urethra</td>
<td>59.72</td>
</tr>
<tr>
<td>polytef implant</td>
<td>59.72</td>
</tr>
<tr>
<td>Urethrorrhaphy</td>
<td>58.41</td>
</tr>
<tr>
<td>Urethroscoopy</td>
<td>58.22</td>
</tr>
<tr>
<td>for control of hemorrhage of prostate</td>
<td>60.94</td>
</tr>
<tr>
<td>perineal</td>
<td>58.21</td>
</tr>
<tr>
<td>Urethroscopy (perineal)</td>
<td>58.0</td>
</tr>
<tr>
<td>Urethrotomy (external)</td>
<td>58.0</td>
</tr>
<tr>
<td>internal (endoscopic)</td>
<td>58.5</td>
</tr>
<tr>
<td>Uroflowmetry (UFR)</td>
<td>89.24</td>
</tr>
<tr>
<td>Urography (antegrade) (excretory) (intravenous)</td>
<td>87.73</td>
</tr>
<tr>
<td>retrograde</td>
<td>87.74</td>
</tr>
<tr>
<td>Uteropexy (abdominal approach) (vaginal approach)</td>
<td>69.22</td>
</tr>
<tr>
<td>UVP (uvulopalatopharyngoplasty)</td>
<td></td>
</tr>
<tr>
<td>UV resection</td>
<td>27.69</td>
</tr>
<tr>
<td>Uvulotony</td>
<td>27.71</td>
</tr>
<tr>
<td>Uvuloplasty (UPPP)</td>
<td></td>
</tr>
<tr>
<td>27.72</td>
<td></td>
</tr>
<tr>
<td>Uvuloplasty(UPPP) (UPPP)</td>
<td></td>
</tr>
<tr>
<td>27.69 [29.4]</td>
<td></td>
</tr>
</tbody>
</table>
### Vaccination (prophylactic) (against) 99.59
- anthrax 99.55
- brucellosis 99.55
- common cold 99.51
- disease NEC 99.55
- arthropod-borne viral NEC 99.54
- encephalitis, arthropod-borne viral 99.53
- German measles 99.47
- hydrophobia 99.44
- infectious parotitis 99.46
- measles 99.45
- mumps 99.46
- paratyphoid fever 99.32
- pertussis 99.37
- plague 99.34
- poliomyelitis 99.41
- rabbies 99.44
- Rocky Mountain spotted fever 99.55
- rubella 99.47
- rubeola 99.45
- smallpox 99.42
- Staphylococcus 99.55
- Streptococcus 99.55
- tuberculosis 99.33
- tularemia 99.35
- tumor 99.28
- typhoid 99.32
- typhus 99.55
- undulant fever 99.55
- yellow fever 99.43

### Vacuum extraction, fetal head 72.79
with episiotomy 72.71

### VAD
vascular access device --see Vascular access device, totally implantable
ventricular assist device --see Implant, heart assist system

### Vagectomy (subdiaphragmatic) --see also Vagotony 44.00

### Vaginal douche 96.44

### Vaginectomy 70.4

### Vaginofixation 70.77
with graft or prosthesis 70.78

### Vaginoperineotomy 70.14

### Vaginoplasty 70.79

### Vaginorrhaphy 70.71
obstetrical 75.69

### Vaginoscopy 70.21

### Vaginotomy 70.14
for
- culdocentesis 70.0
- pelvic abscess 70.12

### Vagotomy (gastric) 44.00
- parietal cell 44.02
- selective NEC 44.03
  - highly 44.02
  - Holle’s 44.02
  - proximal 44.02
  - truncal 44.01

### Valvotomy --see Valvulotomy

### Valvulectomy, heart --see Valvuloplasty, heart

### Valvuloplasty
heart (open heart technique) (without valve replacement) 35.10
with prothesis or tissue graft
--see Replacement, heart, valve, by site
- aortic valve 35.11
- percutaneous (balloon) 35.96
- combined with repair of atrial and ventricular septal defects --see Repair, endocardial cushion defect
- mitral valve 35.12
- percutaneous (balloon) 35.96
- pulmonary valve 35.13
  - in total repair of tetralogy of Fallot 35.81
  - percutaneous (balloon) 35.96
  - tricuspid valve 35.14

### Valvulotomy
heart (closed heart technique) (transatrial)
  - transventricular) 35.00
  - aortic valve 35.01
  - mitral valve 35.02
  - open heart technique --see Valvuloplasty, heart
  - pulmonary valve 35.03
  - in total repair of tetralogy of Fallot 35.81
  - tricuspid valve 35.04

### Varicocelectomy, spermatic cord 63.1

### Varicotomy, peripheral vessels (lower limb) 38.59
upper limb 38.53

### Vascular access device, totally implantable 86.07

### Vascular closure, percutaneous puncture --omit code

### Vascularization --see Revascularization

### Vasectomy (complete) (partial) 63.73

### Vasogram 87.94

### Vasoligation 63.71
gastric 38.86

### Vasorrhaphy 63.71

### Vasostomy 63.81

### Vasotomy 63.6

### Vasotripsy 63.71

### Vasovasostomy 63.82

### Vectorcardiogram (VCG) (with ECG) 89.53
### ICD-9-CM INDEX TO PROCEDURES (FY10)

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vectra® vascular access graft</strong></td>
<td>86.07</td>
</tr>
<tr>
<td><strong>Venectomy</strong></td>
<td>--see Phlebectomy</td>
</tr>
<tr>
<td><strong>Venipuncture NEC</strong></td>
<td>86.07</td>
</tr>
<tr>
<td>for injection of contrast material</td>
<td>--see Phlebography</td>
</tr>
<tr>
<td><strong>Venography</strong></td>
<td>--see Phlebography</td>
</tr>
<tr>
<td><strong>Venorrhaphy</strong></td>
<td>39.32</td>
</tr>
<tr>
<td><strong>Venotomy</strong></td>
<td>38.00</td>
</tr>
<tr>
<td>abdominal</td>
<td>38.07</td>
</tr>
<tr>
<td>head and neck NEC</td>
<td>38.02</td>
</tr>
<tr>
<td>intracranial NEC</td>
<td>38.01</td>
</tr>
<tr>
<td>lower limb</td>
<td>38.09</td>
</tr>
<tr>
<td>thoracic NEC</td>
<td>38.05</td>
</tr>
<tr>
<td>upper limb</td>
<td>38.03</td>
</tr>
<tr>
<td><strong>Venotripsy</strong></td>
<td>39.98</td>
</tr>
<tr>
<td><strong>Venovenostomy</strong></td>
<td>39.29</td>
</tr>
<tr>
<td><strong>Ventilation</strong></td>
<td></td>
</tr>
<tr>
<td>bi-level positive airway pressure [BiPAP]</td>
<td>93.90</td>
</tr>
<tr>
<td>delivered by endotracheal tube</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>tracheostomy</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>continuous positive airway pressure [CPAP]</td>
<td>93.90</td>
</tr>
<tr>
<td>delivered by endotracheal tube</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>tracheostomy</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>endotracheal respiratory assistance</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>intermittent positive pressure breathing [IPPB]</td>
<td>93.91</td>
</tr>
<tr>
<td>mechanical, NOS</td>
<td>93.90</td>
</tr>
<tr>
<td>by endotracheal tube</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>by tracheostomy</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>endotracheal respiratory assistance</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>invasive</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>non-invasive [NIPPV]</td>
<td>93.90</td>
</tr>
<tr>
<td>other continuous (unspecified duration)</td>
<td>96.70</td>
</tr>
<tr>
<td>for less than 96 consecutive hours</td>
<td>96.71</td>
</tr>
<tr>
<td>for 96 consecutive hours or more</td>
<td>96.72</td>
</tr>
<tr>
<td>positive and expiratory pressure [PEEP] invasive</td>
<td>--see category 96.7</td>
</tr>
<tr>
<td>non-invasive</td>
<td>93.90</td>
</tr>
<tr>
<td>negative pressure (continuous) [CNP]</td>
<td>93.90</td>
</tr>
<tr>
<td>non-invasive positive pressure (NIPPV)</td>
<td>93.90</td>
</tr>
<tr>
<td><strong>Ventriculogram, ventriculography</strong></td>
<td></td>
</tr>
<tr>
<td>(cerebral)</td>
<td>87.02</td>
</tr>
<tr>
<td>cardiac</td>
<td></td>
</tr>
<tr>
<td>left ventricle (outflow tract)</td>
<td>88.53</td>
</tr>
<tr>
<td>combined with right heart</td>
<td>88.54</td>
</tr>
<tr>
<td>right ventricle (outflow tract)</td>
<td>88.52</td>
</tr>
<tr>
<td>combined with left heart</td>
<td>88.54</td>
</tr>
<tr>
<td>radionuclide cardiac</td>
<td>92.05</td>
</tr>
<tr>
<td><strong>Ventriculomyocardiotomy</strong></td>
<td>37.11</td>
</tr>
<tr>
<td><strong>Ventriculoperitoneostomy</strong></td>
<td>02.34</td>
</tr>
<tr>
<td><strong>Ventriculopuncture</strong></td>
<td>01.09</td>
</tr>
<tr>
<td>through previously implanted catheter or reservoir (Ommaya) (Rickham)</td>
<td>01.02</td>
</tr>
<tr>
<td><strong>Ventriculoseptectomy</strong></td>
<td>--see also Repair, ventricular septal defect 35.72</td>
</tr>
<tr>
<td><strong>Ventriculoseptoplasty</strong></td>
<td>--see also Repair, ventricular septal defect 35.72</td>
</tr>
<tr>
<td><strong>Ventriculostomy</strong></td>
<td>02.2</td>
</tr>
<tr>
<td><strong>Ventriculotomy</strong></td>
<td>01.09</td>
</tr>
<tr>
<td><strong>Ventriculoureterostomy</strong></td>
<td>02.35</td>
</tr>
<tr>
<td><strong>Ventriculovenostomy</strong></td>
<td>02.32</td>
</tr>
<tr>
<td><strong>Ventriculoxyureterostomy</strong></td>
<td>02.35</td>
</tr>
<tr>
<td><strong>Ventrofixation, uterus</strong></td>
<td>69.22</td>
</tr>
<tr>
<td><strong>Ventrohysteropexy</strong></td>
<td>69.22</td>
</tr>
<tr>
<td><strong>Ventrosuspension, uterus</strong></td>
<td>69.22</td>
</tr>
<tr>
<td><strong>Vestibuloplasty</strong> (buccolabial) (lingual)</td>
<td>95.23</td>
</tr>
<tr>
<td>(combined) (internal) (podalic)</td>
<td>73.21</td>
</tr>
<tr>
<td>with extraction</td>
<td>73.22</td>
</tr>
<tr>
<td>Braxton Hicks</td>
<td>73.21</td>
</tr>
<tr>
<td>with extraction</td>
<td>73.22</td>
</tr>
<tr>
<td>external (bipolar)</td>
<td>73.91</td>
</tr>
<tr>
<td>Potter's (podalic)</td>
<td>73.21</td>
</tr>
<tr>
<td>with extraction</td>
<td>73.22</td>
</tr>
<tr>
<td>Wigand's (external)</td>
<td>73.91</td>
</tr>
<tr>
<td>Wright's (cephalic)</td>
<td>73.21</td>
</tr>
<tr>
<td>with extraction</td>
<td>73.22</td>
</tr>
<tr>
<td><strong>Vertebralplasty</strong>, percutaneous</td>
<td>81.65</td>
</tr>
<tr>
<td><strong>Vesicolithotomy</strong> (suprapubic)</td>
<td>57.19</td>
</tr>
<tr>
<td><strong>Vesicostomy</strong></td>
<td>57.21</td>
</tr>
<tr>
<td><strong>Vesicourethrostomy</strong></td>
<td>57.85</td>
</tr>
<tr>
<td><strong>Vesiculectomy</strong></td>
<td>60.73</td>
</tr>
<tr>
<td>with radical prostatectomy</td>
<td>60.5</td>
</tr>
<tr>
<td><strong>Vesiculogram, seminal</strong></td>
<td>87.92</td>
</tr>
<tr>
<td>contrast</td>
<td>87.91</td>
</tr>
<tr>
<td><strong>Vesiculotomy</strong></td>
<td>60.72</td>
</tr>
<tr>
<td><strong>Vestibuloplasty</strong> (buccolabial) (lingual)</td>
<td>24.91</td>
</tr>
<tr>
<td><strong>Vestibulotomy</strong></td>
<td>20.79</td>
</tr>
<tr>
<td><strong>VH™- IVUS</strong></td>
<td>--see Ultrasound, intravascular, by site</td>
</tr>
<tr>
<td><strong>Vicq D’azyr operation</strong> (larynx)</td>
<td>31.1</td>
</tr>
<tr>
<td><strong>Vidal operation</strong> (varicocele ligation)</td>
<td>63.1</td>
</tr>
<tr>
<td><strong>Vidianectomy</strong></td>
<td>05.21</td>
</tr>
<tr>
<td><strong>Villusectomy</strong> --see also Synovectomy</td>
<td>80.70</td>
</tr>
<tr>
<td><strong>Vision check</strong></td>
<td>95.09</td>
</tr>
<tr>
<td><strong>Visual evoked potential</strong> (VEP)</td>
<td>95.23</td>
</tr>
</tbody>
</table>
ICD-9-CM INDEX TO PROCEDURES (FY10)

Vitrectomy (mechanical) (posterior approach) 14.74
with scleral buckling 14.49
anteror approach 14.73
Vocational
assessment 93.85
retraining 93.85
schooling 93.82
Voice training (postlaryngectomy) 93.73
von Kraske operation (proctectomy) 48.64
Voss operation (hanging hip operation) 83.19
Vulpius (-Compere) operation (lengthening
of gastrocnemius muscle) 83.85
Vulvectomv (bilateral) (simple) 71.62
partial (unilateral) 71.61
radical (complete) 71.15
unilateral 71.61
V- Y operation (repair)
bladder 57.89
neck 57.85
ectropion 08.44
lip 27.59
skin (without graft) 86.89
subcutaneous tissue (without skin graft) 86.89
tongue 25.59

Wada test (hemispheric function) 89.10
Wang needle aspiration biopsy
bronchus 33.24
Ward- Mayo operation (vaginal hysterecomty) 68.59
laparoscopically assisted (LAVH) 68.51
Washing --see Lavage and Irrigation
Waterston operation (aorta-right pulmonary artery anastomosis) 39.0
Watkins (-Wertheim) operation (uterus
interposition) 69.21
Watson- Jones operation
hip arthrodesis 81.21
reconstruction of lateral ligaments,
ankle 81.49
shoulder arthrodesis (extra-articular) 81.23
tenoplasty 83.88
Weaving (syndactylization) 86.89
Weir operation
appendicostomy 47.91
correction of nostrils 21.86
Wertheim operation (radical hysterecomty) 68.69
laparoscopic 68.61
West operation (dacrystivorhinostomy) 09.81
Wheeler operation
entropion repair 08.44
halving procedure (eyelid) 08.24
Whipple operation (radical pancreatice-duodenectomy) 52.7
Child modification (radical subtotal
pancreatecomy) 52.53
Rodney Smith modification (radical subtotal
pancreatecomy) 52.53
White operation (lengthening of tendo
calcaneus by incomplete tenotomy) 83.11
Whitehead operation
glossectomy, radical 25.4
hemorrhoidectomy 49.46
Whitman operation
foot stabilization (taectomy) 77.98
hip reconstruction 81.40
repair of serratus anterior muscle 83.56
taectomy 77.98
trochanter wedge osteotomy 77.25
Wer operation (entropion repair) 08.44
Williams- Richardson operation (vaginal
construction) 70.61
with graft or prosthesis 70.63
Wilms operation (thoracoplasty) 33.34
Wilson operation (angulation osteotomy for
hallux valgus) 77.51
Window operation
antrum (nasal sinus)--see Antrotomy,
maxillary
aorticopulmonary 39.59
bone cortex --see also Incision, bone 77.10
facial 76.09
nasoantral --see Antrotomy, maxillary
pericardium 37.12
pleura 34.09
Winiwarter operation
(cholecystoenterostomy) 51.32
Wiring
aneurysm 39.52
dental (for immobilization) 93.55
with fracture-reduction --see Reduction,
fracture
orthodontic 24.7
Wirsungojejunostomy 52.96
Witzel operation (temporary gastrostomy) 43.19
Woodward operation (release of high riding
scapula) 81.83
Wrapping, aneurysm (gauze) (methyl
methacrylate) (plastic) 39.52
### X

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xenograft</td>
<td>86.65</td>
</tr>
<tr>
<td>Xerography, breast</td>
<td>87.36</td>
</tr>
<tr>
<td>Xeromammography</td>
<td>87.36</td>
</tr>
<tr>
<td>Xiphoidectomy</td>
<td>77.81</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray chest (routine)</td>
<td>87.44</td>
</tr>
<tr>
<td>wall NEC</td>
<td>87.39</td>
</tr>
<tr>
<td>contrast--see Radiography, contrast</td>
<td></td>
</tr>
<tr>
<td>diagnostic--see Radiography</td>
<td></td>
</tr>
<tr>
<td>injection of radio-opaque substance--see Radiography, contrast</td>
<td></td>
</tr>
<tr>
<td>skeletal series, whole or complete</td>
<td>88.31</td>
</tr>
<tr>
<td>therapeutic--see Therapy, radiation</td>
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</table>

### Y

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Young operation epispadias repair</td>
<td>58.45</td>
</tr>
<tr>
<td>tendon transfer (anterior tibialis) repair of flat foot</td>
<td>83.75</td>
</tr>
</tbody>
</table>

### Z

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zancolli operation capsuloplasty</td>
<td>81.72</td>
</tr>
<tr>
<td>tendon transfer (biceps)</td>
<td>82.56</td>
</tr>
<tr>
<td>Zeus® Robotic Surgical System</td>
<td></td>
</tr>
<tr>
<td>--see category</td>
<td>17.4</td>
</tr>
<tr>
<td>Ziegler operation (iridectomy)</td>
<td>12.14</td>
</tr>
<tr>
<td>Zonulolysis (with lens extraction)--see also Extraction, cataract, intracapsular</td>
<td>13.19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-plasty epicanthus</td>
<td>08.59</td>
</tr>
<tr>
<td>eyelid--see also Reconstruction, eyelid</td>
<td>08.70</td>
</tr>
<tr>
<td>hypopharynx</td>
<td>29.4</td>
</tr>
<tr>
<td>skin (scar) (web contracture)</td>
<td>86.84</td>
</tr>
<tr>
<td>with excision of lesion</td>
<td>86.3</td>
</tr>
</tbody>
</table>