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# Appendix B

## Summary of Additions, Deletions, and Revisions

► Appendix B shows the actual changes that were made to the code descriptors. New codes appear with a bullet (●) and are indicated as “Code Added.” Revised codes are preceded with a triangle (▲). Within revised codes, the deleted language appears with a ~~strike through~~, while new text appears underlined. Codes with which moderate sedation would not be separately reported when performed at the same session by the same individual are denoted with the bullseye (⊙). The symbol ✎ is used to identify codes for vaccines that are pending FDA approval (see **Appendix K**). The symbol # is used to identify codes that have been resequenced (see **Appendix N**). CPT add-on codes are annotated by the symbol + (see **Appendix D**). The symbol ⊕ is used to identify codes that are exempt from the use of modifier 51 (see **Appendix E**). The symbol ★ is used to identify codes that may be used for reporting telemedicine services (see **Appendix P**). ◀

### Evaluation and Management

**99420** Administration and interpretation of health risk assessment instrument (eg, health hazard appraisal)

### Surgery

- ⊕▲ **10030** Image-guided fluid collection drainage by catheter (eg, abscess, hematoma, seroma, lymphocele, cyst), soft tissue (eg, extremity, abdominal wall, neck), percutaneous
- 11752** with amputation of tuft of distal phalanx
- ⊕▲ **19298** Placement of radiotherapy after loading brachytherapy catheters (multiple tube and button type) into the breast for interstitial radioelement application following (at the time of or subsequent to) partial mastectomy, includes imaging guidance
- ▲ **20240** Biopsy, bone, open; superficial (eg, ~~humeral shaft~~, sternum, spinous process, rib, sternum, patella, spinous, olecranon process, calcaneus, tarsal, rib, metatarsal, trochanter of femur, carpal, metacarpal, phalanx)

- ▲ **20245** deep (eg, ~~humeral shaft~~, ischium, femur, femoral shaft)
- ⊕▲ **20982** Ablation therapy for reduction or eradication of 1 or more bone tumors (eg, metastasis) including adjacent soft tissue when involved by tumor extension, percutaneous, including imaging guidance when performed; radiofrequency
- ⊕▲ **20983** cryoablation
- 21495** Open treatment of hyoid fracture
- 22305** Closed treatment of vertebral process fracture(s)
- ⊕▲ **22510** Percutaneous vertebroplasty (bone biopsy included when performed), 1 vertebral body, unilateral or bilateral injection, inclusive of all imaging guidance; cervicothoracic
- ⊕▲ **22511** lumbosacral
- ⊕+▲ **22512** each additional cervicothoracic or lumbosacral vertebral body (List separately in addition to code for primary procedure)
- ⊕▲ **22513** Percutaneous vertebral augmentation, including cavity creation (fracture reduction and bone biopsy included when performed) using mechanical device (eg, kyphoplasty), 1 vertebral body, unilateral or bilateral cannulation, inclusive of all imaging guidance; thoracic
- ⊕▲ **22514** lumbar
- ⊕+▲ **22515** each additional thoracic or lumbar vertebral body (List separately in addition to code for primary procedure)
- ⊕▲ **22526** Percutaneous intradiscal electrothermal annuloplasty, unilateral or bilateral including fluoroscopic guidance; single level
- ⊕+▲ **22527** 1 or more additional levels (List separately in addition to code for primary procedure)
- 22851** Application of intervertebral biomechanical device(s) (eg, synthetic cage(s), methylmethacrylate) to vertebral defect or interspace (List separately in addition to code for primary procedure)
- +● **22853** Code added
- +● **22854** Code added
- #+● **22859** Code added
- **22867** Code added
- +● **22868** Code added
- **22869** Code added
- +● **22870** Code added



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|                 |  |                   |   |
|-----------------|--|-------------------|---|
| <b>27193</b>    | Closed treatment of pelvic ring fracture, dislocation, diastasis or subluxation; without manipulation  | ⊖▲ <b>31623</b>   | with brushing or protected brushings  |
| <b>27194</b>    | with manipulation, requiring more than local anesthesia  | ⊖▲ <b>31624</b>   | with bronchial alveolar lavage  |
| ● <b>27197</b>  | Code added   | ⊖▲ <b>31625</b>   | with bronchial or endobronchial biopsy(s), single or multiple sites   |
| ● <b>27198</b>  | Code added   | ⊖▲ <b>31626</b>   | with placement of fiducial markers, single or multiple  |
| ▲ <b>28289</b>  | Hallux rigidus correction with cheilectomy, debridement and capsular release of the first metatarsophalangeal joint; <u>without implant</u>  | ⊖+▲ <b>31627</b>  | with computer-assisted, image-guided navigation (List separately in addition to code for primary procedure[s])  |
| <b>28290</b>    | Correction, hallux valgus (bunion), with or without sesamoidectomy; simple exostectomy (eg, Silver type procedure)   | ⊖▲ <b>31628</b>   | with transbronchial lung biopsy(s), single lobe   |
| ● <b>28291</b>  | Code added   | ⊖▲ <b>31629</b>   | with transbronchial needle aspiration biopsy(s), trachea, main stem and/or lobar bronchus(i)  |
| ▲ <b>28292</b>  | Correction, hallux valgus ( <del>bunion</del> )( <u>bunionectomy</u> ), with sesamoidectomy <u>or without, when performed</u> ; Keller, <del>McBride</del> <u>with resection of proximal phalanx base, or Mayo type procedure when performed, any method</u> | ⊖+▲ <b>31632</b>  | with transbronchial lung biopsy(s), each additional lobe (List separately in addition to code for primary procedure)  |
| <b>28293</b>    | resection of joint with implant  | ⊖+▲ <b>31633</b>  | with transbronchial needle aspiration biopsy(s), each additional lobe (List separately in addition to code for primary procedure)   |
| <b>28294</b>    | with tendon transplants (eg, Joplin type procedure)  | ⊖▲ <b>31634</b>   | with balloon occlusion, with assessment of air leak, with administration of occlusive substance (eg, fibrin glue), if performed   |
| ▲ <b>28296</b>  | with <u>distal</u> metatarsal osteotomy (eg, Mitchell, Chevron, or concentric type procedures) <u>any method</u>   | ⊖▲ <b>31635</b>   | with removal of foreign body  |
| #● <b>28295</b> | Code added   | ⊖▲ <b>31645</b>   | with therapeutic aspiration of tracheobronchial tree, initial (eg, drainage of lung abscess)  |
| ▲ <b>28297</b>  | Lapidus type procedure <u>with first metatarsal and medial cuneiform joint arthrodesis, any method</u>   | ⊖▲ <b>31646</b>   | with therapeutic aspiration of tracheobronchial tree, subsequent  |
| ▲ <b>28298</b>  | by <u>with proximal phalanx osteotomy, any method</u>  | ⊖▲ <b>31647</b>   | with balloon occlusion, when performed, assessment of air leak, airway sizing, and insertion of bronchial valve(s), initial lobe  |
| ▲ <b>28299</b>  | by <u>with double osteotomy, any method</u>  | #⊖+▲ <b>31651</b> | with balloon occlusion, when performed, assessment of air leak, airway sizing, and insertion of bronchial valve(s), each additional lobe (List separately in addition to code for primary procedure[s])     |
| ▲ <b>31575</b>  | Laryngoscopy, flexible fiberoptic; diagnostic  | ⊖▲ <b>31648</b>   | with removal of bronchial valve(s), initial lobe  |
| ▲ <b>31576</b>  | with biopsy(ies)   | ⊖+▲ <b>31649</b>  | with removal of bronchial valve(s), each additional lobe (List separately in addition to code for primary procedure)  |
| ▲ <b>31577</b>  | with removal of foreign body(s)  | ⊖▲ <b>31652</b>   | with endobronchial ultrasound (EBUS) guided transtracheal and/or transbronchial sampling (eg, aspiration[s]/biopsy[ies]), one or two mediastinal and/or hilar lymph node stations or structures             |
| ▲ <b>31578</b>  | with removal of lesion(s), <u>non-laser</u>  | ⊖▲ <b>31653</b>   | with endobronchial ultrasound (EBUS) guided transtracheal and/or transbronchial sampling (eg, aspiration[s]/biopsy[ies]), 3 or more mediastinal and/or hilar lymph node stations or structures              |
| #● <b>31572</b> | Code added   | ⊖+▲ <b>31654</b>  | with transendoscopic endobronchial ultrasound (EBUS) during bronchoscopic diagnostic or therapeutic intervention(s) for peripheral lesion(s) (List separately in addition to code for primary procedure[s]) |
| #● <b>31573</b> | Code added   | ⊖▲ <b>31660</b>   | Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; with bronchial thermoplasty, 1 lobe   |
| #● <b>31574</b> | Code added   | ⊖▲ <b>31661</b>   | with bronchial thermoplasty, 2 or more lobes  |
| ▲ <b>31579</b>  | Laryngoscopy, flexible or rigid fiberoptic <u>telescopic</u> , with stroboscopy  | ⊖▲ <b>31725</b>   | tracheobronchial with fiberscope, bedside   |
| ▲ <b>31580</b>  | Laryngoplasty; for laryngeal web; <del>2-stage</del> , with <u>indwelling keel insertion and removal or stent insertion</u>  | ⊖▲ <b>32405</b>   | Biopsy, lung or mediastinum, percutaneous needle  |
| <b>31582</b>    | for laryngeal stenosis, with graft or core mold, including tracheotomy   | ⊖▲ <b>32550</b>   | Insertion of indwelling tunneled pleural catheter with cuff   |
| #● <b>31551</b> | Code added   | ⊖▲ <b>32551</b>   | Tube thoracostomy, includes connection to drainage system (eg, water seal), when performed, open (separate procedure)   |
| #● <b>31552</b> | Code added   | ⊖▲ <b>32553</b>   | Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), percutaneous, intra-thoracic, single or multiple  |
| #● <b>31553</b> | Code added   | ⊖▲ <b>33010</b>   | Pericardiocentesis; initial   |
| #● <b>31554</b> | Code added   | ⊖▲ <b>33011</b>   | subsequent  |
| ▲ <b>31584</b>  | with open reduction <u>and fixation of (eg, plating) of fracture, includes tracheostomy, if performed</u>  | ⊖▲ <b>33206</b>   | Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial  |
| ▲ <b>31587</b>  | Laryngoplasty, cricoid split, <u>without graft placement</u>   | ⊖▲ <b>33207</b>   | ventricular   |
| <b>31588</b>    | Laryngoplasty, not otherwise specified (eg, for burns, reconstruction after partial laryngectomy)  |                   |   |
| ● <b>31591</b>  | Code added   |                   |   |
| ● <b>31592</b>  | Code added   |                   |   |
| ⊖▲ <b>31615</b> | Tracheobronchoscopy through established tracheostomy incision  |                   |   |
| ⊖▲ <b>31622</b> | Bronchoscopy, rigid or flexible, including fluoroscopic guidance, when performed; diagnostic, with cell washing, when performed (separate procedure)   |                   |   |

## Appendix B—Summary of Additions, Deletions, and Revisions

|           |  |          |   |
|-----------|--|----------|---|
| ⊕▲ 33208  | atrial and ventricular   | 33401    | open, with inflow occlusion   |
| ⊕▲ 33210  | Insertion or replacement of temporary transvenous single chamber cardiac electrode or pacemaker catheter (separate procedure)  | 33403    | using transventricular dilation, with cardiopulmonary bypass  |
| ⊕▲ 33211  | Insertion or replacement of temporary transvenous dual chamber pacing electrodes (separate procedure)  | ▲ 33405  | Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve   |
| ⊕▲ 33212  | Insertion of pacemaker pulse generator only; with existing single lead   | ▲ 33406  | with allograft valve (freehand)   |
| ⊕▲ 33213  | with existing dual leads   | ▲ 33410  | with stentless tissue valve   |
| #⊕▲ 33221 | with existing multiple leads   | ⊕▲ 33990 | Insertion of ventricular assist device, percutaneous including radiological supervision and interpretation; arterial access only  |
| ⊕▲ 33214  | Upgrade of implanted pacemaker system, conversion of single chamber system to dual chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator) | ⊕▲ 33991 | both arterial and venous access, with transseptal puncture  |
| ⊕▲ 33216  | Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator  | ⊕▲ 33992 | Removal of percutaneous ventricular assist device at separate and distinct session from insertion   |
| ⊕▲ 33217  | Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator  | ⊕▲ 33993 | Repositioning of percutaneous ventricular assist device with imaging guidance at separate and distinct session from insertion   |
| ⊕▲ 33218  | Repair of single transvenous electrode, permanent pacemaker or implantable defibrillator   | 35450    | Transluminal balloon angioplasty, open; renal or other visceral artery  |
| ⊕▲ 33220  | Repair of 2 transvenous electrodes for permanent pacemaker or implantable defibrillator  | 35452    | aortic  |
| ⊕▲ 33222  | Relocation of skin pocket for pacemaker  | 35458    | brachiocephalic trunk or branches, each vessel  |
| ⊕▲ 33223  | Relocation of skin pocket for implantable defibrillator  | 35460    | venous  |
| ⊕▲ 33233  | Removal of permanent pacemaker pulse generator only  | 35471    | Transluminal balloon angioplasty, percutaneous; renal or visceral artery  |
| #⊕▲ 33227 | Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system   | 35472    | aortic  |
| #⊕▲ 33228 | dual lead system   | 35475    | brachiocephalic trunk or branches, each vessel  |
| #⊕▲ 33229 | multiple lead system   | 35476    | venous  |
| ⊕▲ 33234  | Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular   | ⊕▲ 36010 | Introduction of catheter, superior or inferior vena cava  |
| ⊕▲ 33235  | dual lead system   | ⊕▲ 36140 | extremity artery  |
| ⊕▲ 33240  | Insertion of implantable defibrillator pulse generator only; with existing single lead   | 36147    | Introduction of needle and/or catheter, arteriovenous shunt created for dialysis (graft/fistula); initial access with complete radiological evaluation of dialysis access, including fluoroscopy, image documentation and report (includes access of shunt, injection[s] of contrast, and all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava) |
| #⊕▲ 33230 | with existing dual leads   | 36148    | additional access for therapeutic intervention (List separately in addition to code for primary procedure)  |
| #⊕▲ 33231 | with existing multiple leads   | ⊕▲ 36200 | Introduction of catheter, aorta   |
| ⊕▲ 33241  | Removal of implantable defibrillator pulse generator only  | ⊕▲ 36221 | Non-selective catheter placement, thoracic aorta, with angiography of the extracranial carotid, vertebral, and/or intracranial vessels, unilateral or bilateral, and all associated radiological supervision and interpretation, includes angiography of the cervicocerebral arch, when performed   |
| #⊕▲ 33262 | Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; single lead system   | ⊕▲ 36222 | Selective catheter placement, common carotid or innominate artery, unilateral, any approach, with angiography of the ipsilateral extracranial carotid circulation and all associated radiological supervision and interpretation, includes angiography of the cervicocerebral arch, when performed  |
| #⊕▲ 33263 | dual lead system   | ⊕▲ 36223 | Selective catheter placement, common carotid or innominate artery, unilateral, any approach, with angiography of the ipsilateral intracranial carotid circulation and all associated radiological supervision and interpretation, includes angiography of the extracranial carotid and cervicocerebral arch, when performed   |
| #⊕▲ 33264 | multiple lead system   | ⊕▲ 36224 | Selective catheter placement, internal carotid artery, unilateral, with angiography of the ipsilateral intracranial carotid circulation and all associated radiological supervision and interpretation, includes angiography of the extracranial carotid and cervicocerebral arch, when performed   |
| ⊕▲ 33244  | by transvenous extraction  |          |   |
| ⊕▲ 33249  | Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber   |          |   |
| ⊕▲ 33282  | Implantation of patient-activated cardiac event recorder   |          |   |
| ⊕▲ 33284  | Removal of an implantable, patient-activated cardiac event recorder  |          |   |
| ● 33340   | Code added   |          |   |
| ● 33390   | Code added   |          |   |
| ● 33391   | Code added   |          |   |
| 33400     | Valvuloplasty, aortic valve; open, with cardiopulmonary bypass   |          |   |

|           |  |                  |  |
|-----------|--|------------------|--|
| ⊖▲ 36225  | Selective catheter placement, subclavian or innominate artery, unilateral, with angiography of the ipsilateral vertebral circulation and all associated radiological supervision and interpretation, includes angiography of the cervicocerebral arch, when performed  | ⊖▲ 36557         | Insertion of tunneled centrally inserted central venous catheter, without subcutaneous port or pump; younger than 5 years of age   |
| ⊖▲ 36226  | Selective catheter placement, vertebral artery, unilateral, with angiography of the ipsilateral vertebral circulation and all associated radiological supervision and interpretation, includes angiography of the cervicocerebral arch, when performed   | ⊖▲ 36558         | age 5 years or older   |
| ⊕+▲ 36227 | Selective catheter placement, external carotid artery, unilateral, with angiography of the ipsilateral external carotid circulation and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)   | ⊖▲ 36560         | Insertion of tunneled centrally inserted central venous access device, with subcutaneous port; younger than 5 years of age   |
| ⊕+▲ 36228 | Selective catheter placement, each intracranial branch of the internal carotid or vertebral arteries, unilateral, with angiography of the selected vessel circulation and all associated radiological supervision and interpretation (eg, middle cerebral artery, posterior inferior cerebellar artery) (List separately in addition to code for primary procedure)  | ⊖▲ 36561         | age 5 years or older   |
| ⊖▲ 36245  | Selective catheter placement, arterial system; each first order abdominal, pelvic, or lower extremity artery branch, within a vascular family  | ⊖▲ 36563         | Insertion of tunneled centrally inserted central venous access device with subcutaneous pump   |
| ⊖▲ 36246  | initial second order abdominal, pelvic, or lower extremity artery branch, within a vascular family   | ⊖▲ 36565         | Insertion of tunneled centrally inserted central venous access device, requiring 2 catheters via 2 separate venous access sites; without subcutaneous port or pump (eg, Tesio type catheter)   |
| ⊖▲ 36247  | initial third order or more selective abdominal, pelvic, or lower extremity artery branch, within a vascular family  | ⊖▲ 36566         | with subcutaneous port(s)  |
| ⊕+▲ 36248 | additional second order, third order, and beyond, abdominal, pelvic, or lower extremity artery branch, within a vascular family (List in addition to code for initial second or third order vessel as appropriate)   | ⊖▲ 36568         | Insertion of peripherally inserted central venous catheter (PICC), without subcutaneous port or pump; younger than 5 years of age  |
| ⊖▲ 36251  | Selective catheter placement (first-order), main renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture and catheter placement(s), fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; unilateral                                    | ⊖▲ 36570         | Insertion of peripherally inserted central venous access device, with subcutaneous port; younger than 5 years of age   |
| ⊖▲ 36252  | bilateral  | ⊖▲ 36571         | age 5 years or older   |
| ⊖▲ 36253  | Superselective catheter placement (one or more second order or higher renal artery branches) renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture, catheterization, fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; unilateral | ⊖▲ 36576         | Repair of central venous access device, with subcutaneous port or pump, central or peripheral insertion site   |
| ⊖▲ 36254  | bilateral  | ⊖▲ 36578         | Replacement, catheter only, of central venous access device, with subcutaneous port or pump, central or peripheral insertion site  |
| ● 36456   | Code added   | ⊖▲ 36581         | Replacement, complete, of a tunneled centrally inserted central venous catheter, without subcutaneous port or pump, through same venous access   |
| ● 36473   | Code added   | ⊖▲ 36582         | Replacement, complete, of a tunneled centrally inserted central venous access device, with subcutaneous port, through same venous access   |
| +● 36474  | Code added   | ⊖▲ 36583         | Replacement, complete, of a tunneled centrally inserted central venous access device, with subcutaneous pump, through same venous access   |
| +▲ 36476  | second-and-subsequent veins(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)   | ⊖▲ 36585         | Replacement, complete, of a peripherally inserted central venous access device, with subcutaneous port, through same venous access   |
| +▲ 36479  | second-and-subsequent veins(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)   | ⊖▲ 36590         | Removal of tunneled central venous access device, with subcutaneous port or pump, central or peripheral insertion  |
| ⊖▲ 36481  | Percutaneous portal vein catheterization by any method   | <del>36870</del> | <del>Thrombectomy, percutaneous, arteriovenous fistula, autogenous or nonautogenous graft (includes mechanical thrombus extraction and intra-graft thrombolysis)</del>   |
| ⊖▲ 36555  | Insertion of non-tunneled centrally inserted central venous catheter; younger than 5 years of age  | ● 36901          | Code added   |
|           |  | ● 36902          | Code added   |
|           |  | ● 36903          | Code added   |
|           |  | ● 36904          | Code added   |
|           |  | ● 36905          | Code added   |
|           |  | ● 36906          | Code added   |
|           |  | +● 36907         | Code added   |
|           |  | +● 36908         | Code added   |
|           |  | +● 36909         | Code added   |
|           |  | ⊖▲ 37183         | Revision of transvenous intrahepatic portosystemic shunt(s) (TIPS) (includes venous access, hepatic and portal vein catheterization, portography with hemodynamic evaluation, intrahepatic tract recanalization/dilatation, stent placement and all associated imaging guidance and documentation) |



## Appendix B—Summary of Additions, Deletions, and Revisions

|   |  |
|---|--|
| <p>⊕▲ <b>37184</b> Primary percutaneous transluminal mechanical thrombectomy, noncoronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injection(s); initial vessel</p>   | <p>⊕▲ <b>37218</b> Transcatheter placement of intravascular stent(s), intrathoracic common carotid artery or innominate artery, open or percutaneous antegrade approach, including angioplasty, when performed, and radiological supervision and interpretation</p>  |
| <p>⊕+▲ <b>37185</b> second and all subsequent vessel(s) within the same vascular family (List separately in addition to code for primary mechanical thrombectomy procedure)</p>   | <p>⊕▲ <b>37220</b> Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty</p>  |
| <p>⊕+▲ <b>37186</b> Secondary percutaneous transluminal thrombectomy (eg, nonprimary mechanical, snare basket, suction technique), noncoronary, non-intracranial, arterial or arterial bypass graft, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic injections, provided in conjunction with another percutaneous intervention other than primary mechanical thrombectomy (List separately in addition to code for primary procedure)</p> | <p>⊕▲ <b>37221</b> with transluminal stent placement(s), includes angioplasty within the same vessel, when performed</p>   |
| <p>⊕▲ <b>37187</b> Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance</p>  | <p>⊕+▲ <b>37222</b> Revascularization, endovascular, open or percutaneous, iliac artery, each additional ipsilateral iliac vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)</p>   |
| <p>⊕▲ <b>37188</b> Percutaneous transluminal mechanical thrombectomy, vein(s), including intraprocedural pharmacological thrombolytic injections and fluoroscopic guidance, repeat treatment on subsequent day during course of thrombolytic therapy</p>  | <p>⊕+▲ <b>37223</b> with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)</p>  |
| <p>⊕▲ <b>37191</b> Insertion of intravascular vena cava filter, endovascular approach including vascular access, vessel selection, and radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance (ultrasound and fluoroscopy), when performed</p>  | <p>⊕▲ <b>37224</b> Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty</p>  |
| <p>⊕▲ <b>37192</b> Repositioning of intravascular vena cava filter, endovascular approach including vascular access, vessel selection, and radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance (ultrasound and fluoroscopy), when performed</p>  | <p>⊕▲ <b>37225</b> with atherectomy, includes angioplasty within the same vessel, when performed</p>   |
| <p>⊕▲ <b>37193</b> Retrieval (removal) of intravascular vena cava filter, endovascular approach including vascular access, vessel selection, and radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance (ultrasound and fluoroscopy), when performed</p>  | <p>⊕▲ <b>37226</b> with transluminal stent placement(s), includes angioplasty within the same vessel, when performed</p>   |
| <p>⊕▲ <b>37197</b> Transcatheter retrieval, percutaneous, of intravascular foreign body (eg, fractured venous or arterial catheter), includes radiological supervision and interpretation, and imaging guidance (ultrasound or fluoroscopy), when performed</p>   | <p>⊕▲ <b>37227</b> with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed</p>   |
| <p>#⊕▲ <b>37211</b> Transcatheter therapy, arterial infusion for thrombolysis other than coronary or intracranial, any method, including radiological supervision and interpretation, initial treatment day</p>   | <p>⊕▲ <b>37228</b> Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty</p>   |
| <p>#⊕▲ <b>37212</b> Transcatheter therapy, venous infusion for thrombolysis, any method, including radiological supervision and interpretation, initial treatment day</p>   | <p>⊕▲ <b>37229</b> with atherectomy, includes angioplasty within the same vessel, when performed</p>   |
| <p>#⊕▲ <b>37213</b> Transcatheter therapy, arterial or venous infusion for thrombolysis other than coronary, any method, including radiological supervision and interpretation, continued treatment on subsequent day during course of thrombolytic therapy, including follow-up catheter contrast injection, position change, or exchange, when performed;</p>   | <p>⊕▲ <b>37230</b> with transluminal stent placement(s), includes angioplasty within the same vessel, when performed</p>   |
| <p>#⊕▲ <b>37214</b> cessation of thrombolysis including removal of catheter and vessel closure by any method</p>  | <p>⊕▲ <b>37231</b> with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed</p>   |
| <p>⊕▲ <b>37215</b> Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological supervision and interpretation; with distal embolic protection</p>   | <p>⊕+▲ <b>37232</b> Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)</p>   |
| <p>⊕▲ <b>37216</b> without distal embolic protection</p>  | <p>⊕+▲ <b>37233</b> with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)</p>  |
|   | <p>⊕+▲ <b>37234</b> with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)</p>  |
|   | <p>⊕+▲ <b>37235</b> with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)</p>  |
|   | <p>#● <b>37246</b> Code added</p>  |
|   | <p>#+● <b>37247</b> Code added</p>   |
|   | <p>#● <b>37248</b> Code added</p>  |
|   | <p>#+● <b>37249</b> Code added</p>   |
|   | <p>⊕▲ <b>37236</b> Transcatheter placement of an intravascular stent(s) (except lower extremity artery(s) for occlusive disease, cervical carotid, extracranial vertebral or intrathoracic carotid, intracranial, or coronary), open or percutaneous, including radiological supervision and interpretation and including all angioplasty within the same vessel, when performed; initial artery</p> |
|   | <p>⊕+▲ <b>37237</b> each additional artery (List separately in addition to code for primary procedure)</p>   |

- ⊖▲ 37238 Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; initial vein
- ⊕+▲ 37239 each additional vein (List separately in addition to code for primary procedure)
- ⊖▲ 37241 Vascular embolization or occlusion, inclusive of all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the intervention; venous, other than hemorrhage (eg, congenital or acquired venous malformations, venous and capillary hemangiomas, varices, varicoceles)
- ⊖▲ 37242 arterial, other than hemorrhage or tumor (eg, congenital or acquired arterial malformations, arteriovenous malformations, arteriovenous fistulas, aneurysms, pseudoaneurysms)
- ⊖▲ 37243 for tumors, organ ischemia, or infarction
- ⊖▲ 37244 for arterial or venous hemorrhage or lymphatic extravasation
- ⊕+▲ 37252 Intravascular ultrasound (noncoronary vessel) during diagnostic evaluation and/or therapeutic intervention, including radiological supervision and interpretation; initial noncoronary vessel (List separately in addition to code for primary procedure)
- ⊕+▲ 37253 each additional noncoronary vessel (List separately in addition to code for primary procedure)
- ⊖▲ 43200 Esophagoscopy, flexible, transoral; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)
- ⊖▲ 43201 with directed submucosal injection(s), any substance
- ⊖▲ 43202 with biopsy, single or multiple
- ⊖▲ 43204 with injection sclerosis of esophageal varices
- ⊖▲ 43205 with band ligation of esophageal varices
- ⊖▲ 43206 with optical endomicroscopy
- ⊖▲ 43215 with removal of foreign body(s)
- ⊖▲ 43216 with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps
- ⊖▲ 43217 with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
- #⊖▲ 43211 with endoscopic mucosal resection
- #⊖▲ 43212 with placement of endoscopic stent (includes pre- and post-dilation and guide wire passage, when performed)
- ⊖▲ 43220 with transendoscopic balloon dilation (less than 30 mm diameter)
- #⊖▲ 43213 with dilation of esophagus, by balloon or dilator, retrograde (includes fluoroscopic guidance, when performed)
- #⊖▲ 43214 with dilation of esophagus with balloon (30 mm diameter or larger) (includes fluoroscopic guidance, when performed)
- ⊖▲ 43226 with insertion of guide wire followed by passage of dilator(s) over guide wire
- ⊖▲ 43227 with control of bleeding, any method
- ⊖▲ 43229 with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)
- ⊖▲ 43231 with endoscopic ultrasound examination
- ⊖▲ 43232 with transendoscopic ultrasound-guided intramural or transmural fine needle aspiration/biopsy(s)
- ⊖▲ 43235 Esophagogastroduodenoscopy, flexible, transoral; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)
- ⊖▲ 43236 with directed submucosal injection(s), any substance
- ⊖▲ 43237 with endoscopic ultrasound examination limited to the esophagus, stomach or duodenum, and adjacent structures
- ⊖▲ 43238 with transendoscopic ultrasound-guided intramural or transmural fine needle aspiration/biopsy(s), (includes endoscopic ultrasound examination limited to the esophagus, stomach or duodenum, and adjacent structures)
- ⊖▲ 43239 with biopsy, single or multiple
- ⊖▲ 43240 with transmural drainage of pseudocyst (includes placement of transmural drainage catheter[s]/stent[s], when performed, and endoscopic ultrasound, when performed)
- ⊖▲ 43241 with insertion of intraluminal tube or catheter
- ⊖▲ 43242 with transendoscopic ultrasound-guided intramural or transmural fine needle aspiration/biopsy(s) (includes endoscopic ultrasound examination of the esophagus, stomach, and either the duodenum or a surgically altered stomach where the jejunum is examined distal to the anastomosis)
- ⊖▲ 43243 with injection sclerosis of esophageal/gastric varices
- ⊖▲ 43244 with band ligation of esophageal/gastric varices
- ⊖▲ 43245 with dilation of gastric/duodenal stricture(s) (eg, balloon, bougie)
- ⊖▲ 43246 with directed placement of percutaneous gastrostomy tube
- ⊖▲ 43247 with removal of foreign body(s)
- ⊖▲ 43248 with insertion of guide wire followed by passage of dilator(s) through esophagus over guide wire
- ⊖▲ 43249 with transendoscopic balloon dilation of esophagus (less than 30 mm diameter)
- #⊖▲ 43233 with dilation of esophagus with balloon (30 mm diameter or larger) (includes fluoroscopic guidance, when performed)
- ⊖▲ 43250 with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps
- ⊖▲ 43251 with removal of tumor(s), polyp(s), or other lesion(s) by snare technique
- ⊖▲ 43252 with optical endomicroscopy
- ⊖▲ 43253 with transendoscopic ultrasound-guided transmural injection of diagnostic or therapeutic substance(s) (eg, anesthetic, neurolytic agent) or fiducial marker(s) (includes endoscopic ultrasound examination of the esophagus, stomach, and either the duodenum or a surgically altered stomach where the jejunum is examined distal to the anastomosis)
- ⊖▲ 43254 with endoscopic mucosal resection
- ⊖▲ 43255 with control of bleeding, any method
- #⊖▲ 43266 with placement of endoscopic stent (includes pre- and post-dilation and guide wire passage, when performed)
- ⊖▲ 43257 with delivery of thermal energy to the muscle of lower esophageal sphincter and/or gastric cardia, for treatment of gastroesophageal reflux disease
- #⊖▲ 43270 with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)
- ⊖▲ 43259 with endoscopic ultrasound examination, including the esophagus, stomach, and either the duodenum or a surgically altered stomach where the jejunum is examined distal to the anastomosis
- ⊖▲ 43260 Endoscopic retrograde cholangiopancreatography (ERCP); diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)
- ⊖▲ 43261 with biopsy, single or multiple

## Appendix B—Summary of Additions, Deletions, and Revisions

|           |   |           |   |
|-----------|---|-----------|---|
| ⊖▲ 43262  | with sphincterotomy/papillotomy   | ⊖▲ 44380  | Ileoscopy, through stoma; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)   |
| ⊖▲ 43263  | with pressure measurement of sphincter of Oddi  | ⊖▲ 44382  | with biopsy, single or multiple   |
| ⊖▲ 43264  | with removal of calculi/debris from biliary/pancreatic duct(s)  | #⊖▲ 44381 | with transendoscopic balloon dilation   |
| ⊖▲ 43265  | with destruction of calculi, any method (eg, mechanical, electrohydraulic, lithotripsy)   | ⊖▲ 44384  | with placement of endoscopic stent (includes pre- and post-dilation and guide wire passage, when performed)   |
| #⊖▲ 43274 | with placement of endoscopic stent into biliary or pancreatic duct, including pre- and post-dilation and guide wire passage, when performed, including sphincterotomy, when performed, each stent           | ⊖▲ 44385  | Endoscopic evaluation of small intestinal pouch (eg, Kock pouch, ileal reservoir [S or J]); diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)   |
| #⊖▲ 43275 | with removal of foreign body(s) or stent(s) from biliary/pancreatic duct(s)   | ⊖▲ 44386  | with biopsy, single or multiple   |
| #⊖▲ 43276 | with removal and exchange of stent(s), biliary or pancreatic duct, including pre- and post-dilation and guide wire passage, when performed, including sphincterotomy, when performed, each stent exchanged  | ⊖▲ 44388  | Colonoscopy through stoma; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)  |
| #⊖▲ 43277 | with trans-endoscopic balloon dilation of biliary/pancreatic duct(s) or of ampulla (sphincteroplasty), including sphincterotomy, when performed, each duct  | ⊖▲ 44389  | with biopsy, single or multiple   |
| #⊖▲ 43278 | with ablation of tumor(s), polyp(s), or other lesion(s), including pre- and post-dilation and guide wire passage, when performed  | ⊖▲ 44390  | with removal of foreign body(s)   |
| ⊖+▲ 43273 | Endoscopic cannulation of papilla with direct visualization of pancreatic/common bile duct(s) (List separately in addition to code(s) for primary procedure)  | ⊖▲ 44391  | with control of bleeding, any method  |
| ● 43284   | Code added  | ⊖▲ 44392  | with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps  |
| ● 43285   | Code added  | #⊖▲ 44401 | with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)  |
| ⊖▲ 43453  | Dilation of esophagus, over guide wire  | ⊖▲ 44394  | with removal of tumor(s), polyp(s), or other lesion(s) by snare technique   |
| ⊖▲ 44360  | Small intestinal endoscopy, enteroscopy beyond second portion of duodenum, not including ileum; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure) | ⊖▲ 44402  | with endoscopic stent placement (including pre- and post-dilation and guide wire passage, when performed)   |
| ⊖▲ 44361  | with biopsy, single or multiple   | ⊖▲ 44403  | with endoscopic mucosal resection   |
| ⊖▲ 44363  | with removal of foreign body(s)   | ⊖▲ 44404  | with directed submucosal injection(s), any substance  |
| ⊖▲ 44364  | with removal of tumor(s), polyp(s), or other lesion(s) by snare technique   | ⊖▲ 44405  | with transendoscopic balloon dilation   |
| ⊖▲ 44365  | with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps or bipolar cautery   | ⊖▲ 44406  | with endoscopic ultrasound examination, limited to the sigmoid, descending, transverse, or ascending colon and cecum and adjacent structures  |
| ⊖▲ 44366  | with control of bleeding (eg, injection, bipolar cautery, unipolar cautery, laser, heater probe, stapler, plasma coagulator)  | ⊖▲ 44407  | with transendoscopic ultrasound guided intramural or transmural fine needle aspiration/biopsy(s), includes endoscopic ultrasound examination limited to the sigmoid, descending, transverse, or ascending colon and cecum and adjacent structures |
| ⊖▲ 44369  | with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique   | ⊖▲ 44408  | with decompression (for pathologic distention) (eg, volvulus, megacolon), including placement of decompression tube, when performed   |
| ⊖▲ 44370  | with transendoscopic stent placement (includes predilation)   | ⊖⊖▲ 44500 | Introduction of long gastrointestinal tube (eg, Miller-Abbott) (separate procedure)   |
| ⊖▲ 44372  | with placement of percutaneous jejunostomy tube   | ⊖▲ 45303  | with dilation (eg, balloon, guide wire, bougie)   |
| ⊖▲ 44373  | with conversion of percutaneous gastrostomy tube to percutaneous jejunostomy tube   | ⊖▲ 45305  | with biopsy, single or multiple   |
| ⊖▲ 44376  | Small intestinal endoscopy, enteroscopy beyond second portion of duodenum, including ileum; diagnostic, with or without collection of specimen(s) by brushing or washing (separate procedure)               | ⊖▲ 45307  | with removal of foreign body  |
| ⊖▲ 44377  | with biopsy, single or multiple   | ⊖▲ 45308  | with removal of single tumor, polyp, or other lesion by hot biopsy forceps or bipolar cautery   |
| ⊖▲ 44378  | with control of bleeding (eg, injection, bipolar cautery, unipolar cautery, laser, heater probe, stapler, plasma coagulator)  | ⊖▲ 45309  | with removal of single tumor, polyp, or other lesion by snare technique   |
| ⊖▲ 44379  | with transendoscopic stent placement (includes predilation)   | ⊖▲ 45315  | with removal of multiple tumors, polyps, or other lesions by hot biopsy forceps, bipolar cautery or snare technique   |
|           |   | ⊖▲ 45317  | with control of bleeding (eg, injection, bipolar cautery, unipolar cautery, laser, heater probe, stapler, plasma coagulator)  |
|           |   | ⊖▲ 45320  | with ablation of tumor(s), polyp(s), or other lesion(s) not amenable to removal by hot biopsy forceps, bipolar cautery or snare technique (eg, laser)   |



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|-----------|--|-----------|--|
| ⊖▲ 45321  | with decompression of volvulus   | ⊖▲ 47383  | Ablation, 1 or more liver tumor(s), percutaneous, cryoablation   |
| ⊖▲ 45327  | with transendoscopic stent placement (includes predilation)  | ⊖▲ 47532  | new access (eg, percutaneous transhepatic cholangiogram)   |
| ⊖▲ 45332  | with removal of foreign body(s)  | ⊖▲ 47533  | Placement of biliary drainage catheter, percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation; external  |
| ⊖▲ 45333  | with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps   | ⊖▲ 47534  | internal-external  |
| ⊖▲ 45334  | with control of bleeding, any method   | ⊖▲ 47535  | Conversion of external biliary drainage catheter to internal-external biliary drainage catheter, percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation   |
| ⊖▲ 45335  | with directed submucosal injection(s), any substance   | ⊖▲ 47536  | Exchange of biliary drainage catheter (eg, external, internal-external, or conversion of internal-external to external only), percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation  |
| ⊖▲ 45337  | with decompression (for pathologic distention) (eg, volvulus, megacolon), including placement of decompression tube, when performed  | ⊖▲ 47538  | Placement of stent(s) into a bile duct, percutaneous, including diagnostic cholangiography, imaging guidance (eg, fluoroscopy and/or ultrasound), balloon dilation, catheter exchange(s) and catheter removal(s) when performed, and all associated radiological supervision and interpretation— <del>each stent</del> ; existing access                       |
| ⊖▲ 45338  | with removal of tumor(s), polyp(s), or other lesion(s) by snare technique  | ⊖▲ 47539  | new access, without placement of separate biliary drainage catheter  |
| #⊖▲ 45346 | with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)   | ⊖▲ 47540  | new access, with placement of separate biliary drainage catheter (eg, external or internal-external)   |
| ⊖▲ 45340  | with transendoscopic balloon dilation  | ⊖▲ 47541  | Placement of access through the biliary tree and into small bowel to assist with an endoscopic biliary procedure (eg, rendezvous procedure), percutaneous, including diagnostic cholangiography when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation, new access               |
| ⊖▲ 45341  | with endoscopic ultrasound examination   | ⊖+▲ 47542 | Balloon dilation of biliary duct(s) or of ampulla (sphincteroplasty), percutaneous, including imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation, each duct (List separately in addition to code for primary procedure)  |
| ⊖▲ 45342  | with transendoscopic ultrasound guided intramural or transmural fine needle aspiration/biopsy(s)   | ⊖+▲ 47543 | Endoluminal biopsy(ies) of biliary tree, percutaneous, any method(s) (eg, brush, forceps, and/or needle), including imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation, single or multiple (List separately in addition to code for primary procedure)   |
| ⊖▲ 45347  | with placement of endoscopic stent (includes pre- and post-dilation and guide wire passage, when performed)  | ⊖+▲ 47544 | Removal of calculi/debris from biliary duct(s) and/or gallbladder, percutaneous, including destruction of calculi by any method (eg, mechanical, electrohydraulic, lithotripsy) when performed, imaging guidance (eg, fluoroscopy), and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure) |
| ⊖▲ 45349  | with endoscopic mucosal resection  | ⊖▲ 49405  | Image-guided fluid collection drainage by catheter (eg, abscess, hematoma, seroma, lymphocele, cyst); visceral (eg, kidney, liver, spleen, lung/mediastinum), percutaneous   |
| ⊖▲ 45350  | with band ligation(s) (eg, hemorrhoids)  | ⊖▲ 49406  | peritoneal or retroperitoneal, percutaneous  |
| ⊖▲ 45378  | Colonoscopy, flexible; diagnostic, including collection of specimen(s) by brushing or washing, when performed (separate procedure)   | ⊖▲ 49407  | peritoneal or retroperitoneal, transvaginal or transrectal   |
| ⊖▲ 45379  | with removal of foreign body(s)  | ⊖▲ 49411  | Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), percutaneous, intra-abdominal, intra-pelvic (except prostate), and/or retroperitoneum, single or multiple  |
| ⊖▲ 45380  | with biopsy, single or multiple  |           |  |
| ⊖▲ 45381  | with directed submucosal injection(s), any substance   |           |  |
| ⊖▲ 45382  | with control of bleeding, any method   |           |  |
| #⊖▲ 45388 | with ablation of tumor(s), polyp(s), or other lesion(s) (includes pre- and post-dilation and guide wire passage, when performed)   |           |  |
| ⊖▲ 45384  | with removal of tumor(s), polyp(s), or other lesion(s) by hot biopsy forceps   |           |  |
| ⊖▲ 45385  | with removal of tumor(s), polyp(s), or other lesion(s) by snare technique  |           |  |
| ⊖▲ 45386  | with transendoscopic balloon dilation  |           |  |
| ⊖▲ 45389  | with endoscopic stent placement (includes pre- and post-dilation and guide wire passage, when performed)   |           |  |
| ⊖▲ 45391  | with endoscopic ultrasound examination limited to the rectum, sigmoid, descending, transverse, or ascending colon and cecum, and adjacent structures   |           |  |
| ⊖▲ 45392  | with transendoscopic ultrasound guided intramural or transmural fine needle aspiration/biopsy(s), includes endoscopic ultrasound examination limited to the rectum, sigmoid, descending, transverse, or ascending colon and cecum, and adjacent structures |           |  |
| #⊖▲ 45390 | with endoscopic mucosal resection  |           |  |
| ⊖▲ 45393  | with decompression (for pathologic distention) (eg, volvulus, megacolon), including placement of decompression tube, when performed  |           |  |
| #⊖▲ 45398 | with band ligation(s) (eg, hemorrhoids)  |           |  |
| ⊖▲ 47000  | Biopsy of liver, needle; percutaneous  |           |  |
| ⊖▲ 47382  | Ablation, 1 or more liver tumor(s), percutaneous, radiofrequency   |           |  |

## Appendix B—Summary of Additions, Deletions, and Revisions

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|---|--|
| <p>⊕▲ 49418 Insertion of tunneled intraperitoneal catheter (eg, dialysis, intraperitoneal chemotherapy instillation, management of ascites), complete procedure, including imaging guidance, catheter placement, contrast injection when performed, and radiological supervision and interpretation, percutaneous</p> <p>⊕▲ 49440 Insertion of gastrostomy tube, percutaneous, under fluoroscopic guidance including contrast injection(s), image documentation and report</p> <p>⊕▲ 49441 Insertion of duodenostomy or jejunostomy tube, percutaneous, under fluoroscopic guidance including contrast injection(s), image documentation and report</p> <p>⊕▲ 49442 Insertion of cecostomy or other colonic tube, percutaneous, under fluoroscopic guidance including contrast injection(s), image documentation and report</p> <p>⊕▲ 49446 Conversion of gastrostomy tube to gastro-jejunostomy tube, percutaneous, under fluoroscopic guidance including contrast injection(s), image documentation and report</p> <p>⊕▲ 50200 Renal biopsy; percutaneous, by trocar or needle</p> <p>⊕▲ 50382 Removal (via snare/capture) and replacement of internally dwelling ureteral stent via percutaneous approach, including radiological supervision and interpretation</p> <p>⊕▲ 50384 Removal (via snare/capture) of internally dwelling ureteral stent via percutaneous approach, including radiological supervision and interpretation</p> <p>⊕▲ 50385 Removal (via snare/capture) and replacement of internally dwelling ureteral stent via transurethral approach, without use of cystoscopy, including radiological supervision and interpretation</p> <p>⊕▲ 50386 Removal (via snare/capture) of internally dwelling ureteral stent via transurethral approach, without use of cystoscopy, including radiological supervision and interpretation</p> <p>⊕▲ 50387 Removal and replacement of externally accessible nephroureteral catheter (eg, external/internal stent) requiring fluoroscopic guidance, including radiological supervision and interpretation</p> <p>#⊕▲ 50430 Injection procedure for antegrade nephrostogram and/or ureterogram, complete diagnostic procedure including imaging guidance (eg, ultrasound and fluoroscopy) and all associated radiological supervision and interpretation; new access</p> <p>#⊕▲ 50432 Placement of nephrostomy catheter, percutaneous, including diagnostic nephrostogram and/or ureterogram when performed, imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation</p> <p>#⊕▲ 50433 Placement of nephroureteral catheter, percutaneous, including diagnostic nephrostogram and/or ureterogram when performed, imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation, new access</p> <p>#⊕▲ 50434 Convert nephrostomy catheter to nephroureteral catheter, percutaneous, including diagnostic nephrostogram and/or ureterogram when performed, imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation, via pre-existing nephrostomy tract</p> <p>⊕▲ 50592 Ablation, 1 or more renal tumor(s), percutaneous, unilateral, radiofrequency</p> <p>⊕▲ 50593 Ablation, renal tumor(s), unilateral, percutaneous, cryotherapy</p> <p>⊕+▲ 50606 Endoluminal biopsy of ureter and/or renal pelvis, non-endoscopic, including imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)</p> | <p>⊕▲ 50693 Placement of ureteral stent, percutaneous, including diagnostic nephrostogram and/or ureterogram when performed, imaging guidance (eg, ultrasound and/or fluoroscopy), and all associated radiological supervision and interpretation; pre-existing nephrostomy tract</p> <p>⊕▲ 50694 new access, without separate nephrostomy catheter</p> <p>⊕▲ 50695 new access, with separate nephrostomy catheter</p> <p>⊕+▲ 50705 Ureteral embolization or occlusion, including imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)</p> <p>⊕+▲ 50706 Balloon dilation, ureteral stricture, including imaging guidance (eg, ultrasound and/or fluoroscopy) and all associated radiological supervision and interpretation (List separately in addition to code for primary procedure)</p> <p>⊕▲ 57155 Insertion of uterine tandem and/or vaginal ovoids for clinical brachytherapy</p> <p>● 58674 Code added</p> <p>▲ 62287 Decompression procedure, percutaneous, of nucleus pulposus of intervertebral disc, any method utilizing needle based technique to remove disc material under fluoroscopic imaging or other form of indirect visualization, with the use of an endoscope, with discography and/or epidural injection(s) at the treated level(s), when performed, single or multiple levels, lumbar</p> <p>62310 Injection(s), of diagnostic or therapeutic substance(s) (including anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, including needle or catheter placement, includes contrast for localization when performed, epidural or subarachnoid; cervical or thoracic</p> <p>62311 lumbar or sacral (caudal)</p> <p>62318 Injection(s), including indwelling catheter placement, continuous infusion or intermittent bolus, of diagnostic or therapeutic substance(s) (including anesthetic, antispasmodic, opioid, steroid, other solution), not including neurolytic substances, includes contrast for localization when performed, epidural or subarachnoid; cervical or thoracic</p> <p>62319 lumbar or sacral (caudal)</p> <p>● 62320 Code added</p> <p>● 62321 Code added</p> <p>● 62322 Code added</p> <p>● 62323 Code added</p> <p>● 62324 Code added</p> <p>● 62325 Code added</p> <p>● 62326 Code added</p> <p>● 62327 Code added</p> <p>● 62380 Code added</p> <p>⊕▲ 66720 cryotherapy</p> <p>▲ 67101 Repair of retinal detachment, 1 or more sessions including drainage of subretinal fluid when performed; cryotherapy or diathermy, including drainage of subretinal fluid, when performed</p> <p>▲ 67105 photocoagulation, including drainage of subretinal fluid, when performed</p> <p>⊕▲ 69300 Otoplasty, protruding ear, with or without size reduction</p> |
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## Radiology

- 75791** Angiography, arteriovenous shunt (eg, dialysis patient fistula/graft), complete evaluation of dialysis access, including fluoroscopy, image documentation and report (includes injections of contrast and all necessary imaging from the arterial anastomosis and adjacent artery through entire venous outflow including the inferior or superior vena cava), radiological supervision and interpretation
- 75962** Transluminal balloon angioplasty, peripheral artery other than renal, or other visceral artery, iliac or lower extremity, radiological supervision and interpretation
- 75964** Transluminal balloon angioplasty, each additional peripheral artery other than renal or other visceral artery, iliac or lower extremity, radiological supervision and interpretation (List separately in addition to code for primary procedure)
- 75966** Transluminal balloon angioplasty, renal or other visceral artery, radiological supervision and interpretation
- 75968** Transluminal balloon angioplasty, each additional visceral artery, radiological supervision and interpretation (List separately in addition to code for primary procedure)
- 75978** Transluminal balloon angioplasty, venous (eg, subclavian stenosis), radiological supervision and interpretation
- **76706** Code added
- +▲ **77002** Fluoroscopic guidance for needle placement (eg, biopsy, aspiration, injection, localization device) (List separately in addition to code for primary procedure)
- +▲ **77003** Fluoroscopic guidance and localization of needle or catheter tip for spine or paraspinal diagnostic or therapeutic injection procedures (epidural or subarachnoid) (List separately in addition to code for primary procedure)
- 77051** Computer-aided detection (computer algorithm analysis of digital image data for lesion detection) with further review for interpretation, with or without digitization of film radiographic images; diagnostic mammography (List separately in addition to code for primary procedure)
- 77052** screening mammography (List separately in addition to code for primary procedure)
- 77055** Mammography, unilateral
- 77056** bilateral
- 77057** Screening mammography, bilateral (2-view study of each breast)
- **77065** Code added
- **77066** Code added
- **77067** Code added
- ⊕▲ **77371** Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based
- ⊕▲ **77600** Hyperthermia, externally generated; superficial (ie, heating to a depth of 4 cm or less)
- ⊕▲ **77605** deep (ie, heating to depths greater than 4 cm)
- ⊕▲ **77610** Hyperthermia generated by interstitial probe(s); 5 or fewer interstitial applicators
- ⊕▲ **77615** more than 5 interstitial applicators

## Pathology and Laboratory

- 80300** Drug screen, any number of drug classes from Drug Class List A; any number of non-TLC devices or procedures, (eg, immunoassay) capable of being read by direct optical observation, including instrumented-assisted when performed (eg, dipsticks, cups, cards, cartridges), per date of service
- 80301** single drug class method, by instrumented test systems (eg, discrete multichannel chemistry analyzers utilizing immunoassay or enzyme assay), per date of service
- 80302** Drug screen, presumptive, single drug class from Drug Class List B, by immunoassay (eg, ELISA) or non-TLC chromatography without mass spectrometry (eg, GC, HPLC), each procedure
- 80303** Drug screen, any number of drug classes, presumptive, single or multiple drug class method; thin layer chromatography procedure(s) (TLC) (eg, acid, neutral, alkaloid plate), per date of service
- 80304** not otherwise specified presumptive procedure (eg, TOF, MALDI, LDTD, DESI, DART), each procedure
- #● **80305** Code added
- #● **80306** Code added
- #● **80307** Code added
- 81280** Long QT syndrome gene analyses (eg, *KCNQ1*, *KCNH2*, *SCN5A*, *KGNE1*, *KGNE2*, *KGNJ2*, *CACNA1C*, *CAV3*, *SCN4B*, *AKAP*, *SNTA1*, and *ANKK2*); full sequence analysis
- 81281** known familial sequence variant
- 81282** duplication/deletion variants
- **81327** Code added
- ▲ **81401** Molecular pathology procedure, Level 2 (eg, 2-10 SNPs, 1 methylated variant, or 1 somatic variant [typically using nonsequencing target variant analysis], or detection of a dynamic mutation disorder/triplet repeat)
- SEPT9* (*septin 9*) (eg, colon cancer), methylation analysis
- ▲ **81403** Molecular pathology procedure, Level 4 (eg, analysis of single exon by DNA sequence analysis, analysis of >10 amplicons using multiplex PCR in 2 or more independent reactions, mutation scanning or duplication/deletion variants of 2-5 exons)
- Killer cell immunoglobulin-like receptor (KIR) gene family (eg, hematopoietic stem cell transplantation), genotyping of KIR family genes
- Known familial variant not otherwise specified, for gene listed in Tier 1 or Tier 2, or identified during a genomic sequencing procedure, DNA sequence analysis, each variant exon
- ▲ **81406** Molecular pathology procedure, Level 7 (eg, analysis of 11-25 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 26-50 exons, cytogenomic array analysis for neoplasia)
- KCNH2* (*potassium voltage-gated channel, subfamily H [eag-related], member 2*) (eg, short QT syndrome, long QT syndrome), full gene sequence
- (Do not report 81406 for *KCNH2* full gene sequence in conjunction with 81280)
- KCNQ1* (*potassium voltage-gated channel, KQT-like subfamily, member 1*) (eg, short QT syndrome, long QT syndrome), full gene sequence
- (Do not report 81406 for *KCNQ1* full gene sequence with 81280)
- **81413** Code added

## Appendix B—Summary of Additions, Deletions, and Revisions

- **81414** Code added
- **81422** Code added
- **81439** Code added
- **81539** Code added
- ▲ **83015** Heavy metal (eg, arsenic, barium, beryllium, bismuth, antimony, mercury); ~~screen~~qualitative, any number of analytes
- ▲ **83018** quantitative, each, ~~not elsewhere specified~~
- ▲ **83704** quantitation of lipoprotein particle numbers and lipoprotein particle ~~subclasses~~number(s) (eg, by nuclear magnetic resonance spectroscopy), includes lipoprotein particle subclasses, when performed
- **84410** Code added
- **87483** Code added

### Medicine

- ▲ **90655** Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, when administered to children 6-35 months of age 0.25 mL dosage, for intramuscular use
- ▲ **90656** Influenza virus vaccine, trivalent (IIV3), split virus, preservative free, when administered to individuals 3 years and older 0.5 mL dosage, for intramuscular use
- ▲ **90657** Influenza virus vaccine, trivalent (IIV3), split virus, when administered to children 6-35 months of age 0.25 mL dosage, for intramuscular use
- ▲ **90658** Influenza virus vaccine, trivalent (IIV3), split virus, when administered to individuals 3 years of age and older 0.5 mL dosage, for intramuscular use
- ▲ **90661** Influenza virus vaccine, trivalent (cclIIV3), derived from cell cultures, subunit, preservative and antibiotic free, 0.5 mL dosage, for intramuscular use
- # ● **90674** Code added
- ▲ **90685** Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, when administered to children 6-35 months of age 0.25 mL dosage, for intramuscular use
- ▲ **90686** Influenza virus vaccine, quadrivalent (IIV4), split virus, preservative free, when administered to individuals 3 years of age and older 0.5 mL dosage, for intramuscular use
- ▲ **90687** Influenza virus vaccine, quadrivalent (IIV4), split virus, when administered to children 6-35 months of age 0.25 mL dosage, for intramuscular use
- ▲ **90688** Influenza virus vaccine, quadrivalent (IIV4), split virus, when administered to individuals 3 years of age and older 0.5 mL dosage, for intramuscular use
- # ▲ **90644** Meningococcal conjugate vaccine, serogroups C & Y and Haemophilus influenzae type b vaccine (Hib-MenCY), 4 dose schedule, when administered to children 26 weeks-18 months of age, for intramuscular use
- ▲ **90734** Meningococcal conjugate vaccine, serogroups A, C, Y and W-135, quadrivalent (MenACWY) (MCV4 or MenACWY), for intramuscular use
- ★ ▲ **90832** Psychotherapy, 30 minutes with patient ~~and/or family member~~
- ★+ ▲ **90833** Psychotherapy, 30 minutes with patient ~~and/or family member~~ when performed with an evaluation and management service (List separately in addition to the code for primary procedure)
- ★ ▲ **90834** Psychotherapy, 45 minutes with patient ~~and/or family member~~
- ★+ ▲ **90836** Psychotherapy, 45 minutes with patient ~~and/or family member~~ when performed with an evaluation and management service (List separately in addition to the code for primary procedure)
- ★ ▲ **90837** Psychotherapy, 60 minutes with patient ~~and/or family member~~
- ★+ ▲ **90838** Psychotherapy, 60 minutes with patient ~~and/or family member~~ when performed with an evaluation and management service (List separately in addition to the code for primary procedure)
- ★ ▲ **90846** Family psychotherapy (without the patient present), 50 minutes
- ★ ▲ **90847** Family psychotherapy (conjoint psychotherapy) (with patient present), 50 minutes
- 92140** Provocative tests for glaucoma, with interpretation and report, without tonography
- ▲ **92235** Fluorescein angiography (includes multiframe imaging) with interpretation and report, unilateral or bilateral
- ▲ **92240** Indocyanine-green angiography (includes multiframe imaging) with interpretation and report, unilateral or bilateral
- **92242** Code added
- ▲ **92612** Flexible fiberoptic endoscopic evaluation of swallowing by cine or video recording;
- ▲ **92613** interpretation and report only
- ▲ **92614** Flexible fiberoptic endoscopic evaluation, laryngeal sensory testing by cine or video recording;
- ▲ **92615** interpretation and report only
- ▲ **92616** Flexible fiberoptic endoscopic evaluation of swallowing and laryngeal sensory testing by cine or video recording;
- ▲ **92617** interpretation and report only
- ⊖ ▲ **92953** Temporary transcuteaneous pacing
- ⊖ ▲ **92960** Cardioversion, elective, electrical conversion of arrhythmia; external
- ⊖ ▲ **92961** internal (separate procedure)
- ⊖ ▲ **92986** Percutaneous balloon valvuloplasty; aortic valve
- ⊖ ▲ **92987** mitral valve
- # ⊖ ▲ **92920** Percutaneous transluminal coronary angioplasty; single major coronary artery or branch
- # ⊖+ ▲ **92921** each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- # ⊖ ▲ **92924** Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch
- # ⊖+ ▲ **92925** each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- # ⊖ ▲ **92928** Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch
- # ⊖+ ▲ **92929** each additional branch of a major coronary artery (List separately in addition to code for primary procedure)
- # ⊖ ▲ **92933** Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch
- # ⊖+ ▲ **92934** each additional branch of a major coronary artery (List separately in addition to code for primary procedure)

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| #⊖▲ 92937  | Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel  | ⊖▲ 93454  | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;  |
| #⊖+▲ 92938 | each additional branch subtended by the bypass graft (List separately in addition to code for primary procedure)  | ⊖▲ 93455  | with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography   |
| #⊖▲ 92941  | Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel   | ⊖⊖▲ 93456 | with right heart catheterization   |
| #⊖▲ 92943  | Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel  | ⊖▲ 93457  | with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization   |
| #⊖+▲ 92944 | each additional coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)  | ⊖▲ 93458  | with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed   |
| #⊖+▲ 92973 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure)  | ⊖▲ 93459  | with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography  |
| #⊖+▲ 92974 | Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure)  | ⊖▲ 93460  | with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed   |
| #⊖▲ 92975  | Thrombolysis, coronary; by intracoronary infusion, including selective coronary angiography   | ⊖▲ 93461  | with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography  |
| #⊖+▲ 92978 | <del>Intravascular ultrasound</del> <u>Endoluminal imaging of coronary vessel or graft) using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; initial vessel</u> (List separately in addition to code for primary procedure) | ⊖+▲ 93462 | Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (List separately in addition to code for primary procedure)  |
| #⊖+▲ 92979 | each additional vessel (List separately in addition to code for primary procedure)  | ⊖+▲ 93463 | Pharmacologic agent administration (eg, inhaled nitric oxide, intravenous infusion of nitroprusside, dobutamine, milrinone, or other agent) including assessing hemodynamic measurements before, during, after and repeat pharmacologic agent administration, when performed (List separately in addition to code for primary procedure)   |
| ⊖▲ 93312   | Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); including probe placement, image acquisition, interpretation and report  | ⊖+▲ 93464 | Physiologic exercise study (eg, bicycle or arm ergometry) including assessing hemodynamic measurements before and after (List separately in addition to code for primary procedure);   |
| ⊖▲ 93313   | placement of transesophageal probe only   | ⊖▲ 93505  | Endomyocardial biopsy  |
| ⊖▲ 93314   | image acquisition, interpretation and report only   | ⊖▲ 93530  | Right heart catheterization, for congenital cardiac anomalies  |
| ⊖▲ 93315   | Transesophageal echocardiography for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report  | ⊖▲ 93561  | Indicator dilution studies such as dye or thermodilution, including arterial and/or venous catheterization; with cardiac output measurement (separate procedure)   |
| ⊖▲ 93316   | placement of transesophageal probe only   | ⊖▲ 93562  | subsequent measurement of cardiac output   |
| ⊖▲ 93317   | image acquisition, interpretation and report only   | ⊖+▲ 93563 | Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective coronary angiography during congenital heart catheterization (List separately in addition to code for primary procedure)   |
| ⊖▲ 93318   | Echocardiography, transesophageal (TEE) for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to therapeutic measures on an immediate time basis   | ⊖+▲ 93564 | for selective opacification of aortocoronary venous or arterial bypass graft(s) (eg, aortocoronary saphenous vein, free radial artery, or free mammary artery graft) to one or more coronary arteries and in situ arterial conduits (eg, internal mammary), whether native or used for bypass to one or more coronary arteries during congenital heart catheterization, when performed (List separately in addition to code for primary procedure) |
| ⊖⊖▲ 93451  | Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed  | ⊖+▲ 93565 | for selective left ventricular or left atrial angiography (List separately in addition to code for primary procedure)  |
| ⊖▲ 93452   | Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed   | ⊖+▲ 93566 | for selective right ventricular or right atrial angiography (List separately in addition to code for primary procedure)  |
| ⊖▲ 93453   | Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed  | ⊖+▲ 93567 | for supravalvular aortography (List separately in addition to code for primary procedure)  |
|            |   | ⊖+▲ 93568 | for pulmonary angiography (List separately in addition to code for primary procedure)  |



## Appendix B—Summary of Additions, Deletions, and Revisions

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| <p>⊕+▲ <b>93571</b> Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; initial vessel (List separately in addition to code for primary procedure)</p> <p>⊕+▲ <b>93572</b> each additional vessel (List separately in addition to code for primary procedure)</p> <p>⊕▲ <b>93582</b> Percutaneous transcatheter closure of patent ductus arteriosus</p> <p>⊕▲ <b>93583</b> Percutaneous transcatheter septal reduction therapy (eg, alcohol septal ablation) including temporary pacemaker insertion when performed</p> <p>● <b>93590</b> Code added</p> <p>● <b>93591</b> Code added</p> <p>+● <b>93592</b> Code added</p> <p>⊕+▲ <b>93609</b> Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia (List separately in addition to code for primary procedure)</p> <p>⊕+▲ <b>93613</b> Intracardiac electrophysiologic 3-dimensional mapping (List separately in addition to code for primary procedure)</p> <p>⊕⊖▲ <b>93615</b> Esophageal recording of atrial electrogram with or without ventricular electrogram(s);</p> <p>⊕⊖▲ <b>93616</b> with pacing</p> <p>⊕⊖▲ <b>93618</b> Induction of arrhythmia by electrical pacing</p> <p>⊕▲ <b>93619</b> Comprehensive electrophysiologic evaluation with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording, including insertion and repositioning of multiple electrode catheters, without induction or attempted induction of arrhythmia</p> <p>⊕▲ <b>93620</b> Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording</p> <p>⊕+▲ <b>93621</b> with left atrial pacing and recording from coronary sinus or left atrium (List separately in addition to code for primary procedure)</p> <p>⊕+▲ <b>93622</b> with left ventricular pacing and recording (List separately in addition to code for primary procedure)</p> <p>⊕▲ <b>93624</b> Electrophysiologic follow-up study with pacing and recording to test effectiveness of therapy, including induction or attempted induction of arrhythmia</p> <p>⊕▲ <b>93640</b> Electrophysiologic evaluation of single or dual chamber pacing cardioverter-defibrillator leads including defibrillation threshold evaluation (induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination) at time of initial implantation or replacement;</p> <p>⊕▲ <b>93641</b> with testing of single or dual chamber pacing cardioverter-defibrillator pulse generator</p> <p>⊕▲ <b>93642</b> Electrophysiologic evaluation of single or dual chamber transvenous pacing cardioverter-defibrillator (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing and pacing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters)</p> <p>⊕▲ <b>93644</b> Electrophysiologic evaluation of subcutaneous implantable defibrillator (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters)</p> | <p>⊕▲ <b>93650</b> Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement</p> <p>⊕▲ <b>93653</b> Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with right atrial pacing and recording, right ventricular pacing and recording (when necessary), and His bundle recording (when necessary) with intracardiac catheter ablation of arrhythmogenic focus; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry</p> <p>⊕▲ <b>93654</b> with treatment of ventricular tachycardia or focus of ventricular ectopy including intracardiac electrophysiologic 3D mapping, when performed, and left ventricular pacing and recording, when performed</p> <p>⊕+▲ <b>93655</b> Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia (List separately in addition to code for primary procedure)</p> <p>⊕▲ <b>93656</b> Comprehensive electrophysiologic evaluation including transeptal catheterizations, insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia including left or right atrial pacing/recording when necessary, right ventricular pacing/recording when necessary, and His bundle recording when necessary with intracardiac catheter ablation of atrial fibrillation by pulmonary vein isolation</p> <p>⊕+▲ <b>93657</b> Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation (List separately in addition to code for primary procedure)</p> <p><del>93965</del> <b>93965</b> Noninvasive physiologic studies of extremity veins, complete-bilateral study (eg, Doppler waveform analysis with responses to compression and other maneuvers, phleborheography, impedance plethysmography)</p> <p>⊕▲ <b>94011</b> Measurement of spirometric forced expiratory flows in an infant or child through 2 years of age</p> <p>⊕▲ <b>94012</b> Measurement of spirometric forced expiratory flows, before and after bronchodilator, in an infant or child through 2 years of age</p> <p>⊕▲ <b>94013</b> Measurement of lung volumes (ie, functional residual capacity [FRC], forced vital capacity [FVC], and expiratory reserve volume [ERV]) in an infant or child through 2 years of age</p> <p>● <b>96160</b> Code added</p> <p>● <b>96161</b> Code added</p> <p>● <b>96377</b> Code added</p> <p>#● <b>97161</b> Code added</p> <p>#● <b>97162</b> Code added</p> <p>#● <b>97163</b> Code added</p> <p>#● <b>97164</b> Code added</p> <p>#● <b>97165</b> Code added</p> <p>#● <b>97166</b> Code added</p> <p>#● <b>97167</b> Code added</p> <p>#● <b>97168</b> Code added</p> <p>#● <b>97169</b> Code added</p> <p>#● <b>97170</b> Code added</p> |
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| #● 97171                  | Code added   | ⊕▲ 0200T  | Percutaneous sacral augmentation (sacroplasty), unilateral injection(s), including the use of a balloon or mechanical device, when used, 1 or more needles, includes imaging guidance and bone biopsy, when performed  |
| #● 97172                  | Code added   | ⊕▲ 0201T  | Percutaneous sacral augmentation (sacroplasty), bilateral injections, including the use of a balloon or mechanical device, when used, 2 or more needles, includes imaging guidance and bone biopsy, when performed   |
| 97001                     | Physical therapy evaluation  | ▲ 0274T   | Percutaneous laminotomy/laminectomy (interlaminar approach) for decompression of neural elements, (with or without ligamentous resection, discectomy, facetectomy and/or foraminotomy), any method, under indirect image guidance (eg, fluoroscopic, CT), <del>with or without the use of an endoscope</del> , single or multiple levels, unilateral or bilateral; cervical or thoracic lumbar |
| 97002                     | Physical therapy re-evaluation   | ▲ 0275T   | lumbar   |
| 97003                     | Occupational therapy evaluation  | 0281T     | Percutaneous transcatheter closure of the left atrial appendage with implant, including fluoroscopy, transseptal puncture, catheter placement(s), left atrial angiography, left atrial appendage angiography, radiological supervision and interpretation  |
| 97004                     | Occupational therapy re-evaluation   | 0282T     | Percutaneous or open implantation of neurostimulator electrode array(s), subcutaneous (peripheral subcutaneous field stimulation), including imaging guidance, when performed, cervical, thoracic or lumbar; for trial, including removal at the conclusion of trial period  |
| 97005                     | Athletic training evaluation   | 0283T     | permanent, with implantation of a pulse generator  |
| 97006                     | Athletic training re-evaluation  | 0284T     | Revision or removal of pulse generator or electrodes, including imaging guidance, when performed, including addition of new electrodes, when performed   |
| ▲ 97602                   | Removal of devitalized tissue from wound(s), non-selective debridement, without anesthesia (eg, wet-to-moist dressings, enzymatic, abrasion, larval therapy), including topical application(s), wound assessment, and instruction(s) for ongoing care, per session   | 0285T     | Electronic analysis of implanted peripheral subcutaneous field stimulation pulse generator, with reprogramming when performed  |
| 99143                     | Moderate sedation services (other than those services described by codes 00100-01999) provided by the same physician or other qualified health care professional performing the diagnostic or therapeutic service that the sedation supports, requiring the presence of an independent trained observer to assist in the monitoring of the patient's level of consciousness and physiological status; younger than 5 years of age, first 30 minutes intra-service time | 0286T     | Near-infrared spectroscopy studies of lower extremity wounds (eg, for oxyhemoglobin measurement)   |
| 99144                     | age 5 years or older, first 30 minutes intra-service time  | 0287T     | Near-infrared guidance for vascular access requiring real-time digital visualization of subcutaneous vasculature for evaluation of potential access sites and vessel patency   |
| 99145                     | each additional 15 minutes intra-service time (List separately in addition to code for primary service)  | 0288T     | Anoscopy, with delivery of thermal energy to the muscle of the anal canal (eg, for fecal incontinence)   |
| 99148                     | Moderate sedation services (other than those services described by codes 00100-01999), provided by a physician or other qualified health care professional other than the health care professional performing the diagnostic or therapeutic service that the sedation supports; younger than 5 years of age, first 30 minutes intra-service time   | 0289T     | Corneal incisions in the donor cornea created using a laser, in preparation for penetrating or lamellar keratoplasty (List separately in addition to code for primary procedure)   |
| 99149                     | age 5 years or older, first 30 minutes intra-service time  | 0291T     | Intravascular optical coherence tomography (coronary native vessel or graft) during diagnostic evaluation and/or therapeutic intervention, including imaging supervision, interpretation, and report; initial vessel (List separately in addition to primary procedure)  |
| 99150                     | each additional 15 minutes intra-service time (List separately in addition to code for primary service)  | 0292T     | each additional vessel (List separately in addition to primary procedure)  |
| ⊖● 99151                  | Code added   | ⊕▲ 0293T  | Insertion of left atrial hemodynamic monitor; complete system, includes implanted communication module and pressure sensor lead in left atrium including transseptal access, radiological supervision and interpretation, and associated injection procedures, when performed  |
| ⊖● 99152                  | Code added   | ⊕+▲ 0294T | pressure sensor lead at time of insertion of pacing cardioverter-defibrillator pulse generator including radiological supervision and interpretation and associated injection procedures, when performed (List separately in addition to code for primary procedure)   |
| +● 99153                  | Code added   |           |  |
| ● 99155                   | Code added   |           |  |
| ● 99156                   | Code added   |           |  |
| +● 99157                  | Code added   |           |  |
| <b>Category II Codes</b>  |  |           |  |
| ▲ 4151F                   | Patient <u>did not start</u> or <u>is not</u> receiving antiviral treatment for Hepatitis C during the measurement period (HEP-C) <sup>1</sup>   |           |  |
| <b>Category III Codes</b> |  |           |  |
| 0019T                     | Extracorporeal shock wave involving musculoskeletal system, not otherwise specified, low energy  |           |  |
| 0169T                     | Stereotactic placement of infusion catheter(s) in the brain for delivery of therapeutic agent(s), including computerized stereotactic planning and burr hole(s)  |           |  |
| 0171T                     | Insertion of posterior spinous process distraction device (including necessary removal of bone or ligament for insertion and imaging guidance), lumbar; single level   |           |  |
| 0172T                     | each additional level (List separately in addition to code for primary procedure)  |           |  |

## Appendix B—Summary of Additions, Deletions, and Revisions

|           |  |          |            |
|-----------|--|----------|------------|
| ⊖▲ 0301T  | Destruction/reduction of malignant breast tumor with externally applied focused microwave, including interstitial placement of disposable catheter with combined temperature monitoring probe and microwave focusing sensocatheter under ultrasound thermotherapy guidance | ● 0431T  | Code added |
| ⊖▲ 0302T  | Insertion or removal and replacement of intracardiac ischemia monitoring system including imaging supervision and interpretation when performed and intra-operative interrogation and programming when performed; complete system (includes device and electrode)          | ● 0432T  | Code added |
| ⊖▲ 0303T  | electrode only   | ● 0433T  | Code added |
| ⊖▲ 0304T  | device only  | ● 0434T  | Code added |
| ⊖▲ 0307T  | Removal of intracardiac ischemia monitoring device   | ● 0435T  | Code added |
| ⊖▲ 0308T  | Insertion of ocular telescope prosthesis including removal of crystalline lens or intraocular lens prosthesis  | ● 0436T  | Code added |
| ⊖▲ 0335T  | Extra-osseous subtalar joint implant for talotarsal stabilization  | +● 0437T | Code added |
| 0336T     | Laparoscopy, surgical, ablation of uterine fibroid(s), including intraoperative ultrasound guidance and monitoring, radiofrequency   | ● 0438T  | Code added |
| ⊖▲ 0340T  | Ablation, pulmonary tumor(s), including pleura or chest wall when involved by tumor extension, percutaneous, cryoablation, unilateral, includes imaging guidance   | +● 0439T | Code added |
| 0392F     | Laparoscopy, surgical, esophageal sphincter augmentation procedure, placement of sphincter augmentation device (ie, magnetic band)   | ● 0440T  | Code added |
| 0393F     | Removal of esophageal sphincter augmentation device  | ● 0441T  | Code added |
| ⊖+▲ 0397T | Endoscopic retrograde cholangiopancreatography (ERCP), with optical endomicroscopy (List separately in addition to code for primary procedure)   | ● 0442T  | Code added |
| ● 0408T   | Code added   | +● 0443T | Code added |
| ● 0409T   | Code added   | ● 0444T  | Code added |
| ● 0410T   | Code added   | ● 0445T  | Code added |
| ● 0411T   | Code added   | ● 0446T  | Code added |
| ● 0412T   | Code added   | ● 0447T  | Code added |
| ● 0413T   | Code added   | ● 0448T  | Code added |
| ● 0414T   | Code added   | ● 0449T  | Code added |
| ● 0415T   | Code added   | +● 0450T | Code added |
| ● 0416T   | Code added   | ● 0451T  | Code added |
| ● 0417T   | Code added   | ● 0452T  | Code added |
| ● 0418T   | Code added   | ● 0453T  | Code added |
| ● 0419T   | Code added   | ● 0454T  | Code added |
| ● 0420T   | Code added   | ● 0455T  | Code added |
| ● 0421T   | Code added   | ● 0456T  | Code added |
| ● 0422T   | Code added   | ● 0457T  | Code added |
| ● 0423T   | Code added   | ● 0458T  | Code added |
| ● 0424T   | Code added   | ● 0459T  | Code added |
| ● 0425T   | Code added   | ● 0460T  | Code added |
| ● 0426T   | Code added   | ● 0461T  | Code added |
| ● 0427T   | Code added   | ● 0462T  | Code added |
| ● 0428T   | Code added   | ● 0463T  | Code added |
| ● 0429T   | Code added   |          |            |
| ● 0430T   | Code added   |          |            |