

## Supplemental Information

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### 1: DETAILS ON CONSTRUCTING THE CROSSWALK BETWEEN PROCEDURE CODE AND PROCEDURE TYPE

We downloaded all versions of the Agency for Healthcare Research and Quality's Surgical Flags for Services and Procedures algorithm from 2014–2022. We identified 3664 unique Current Procedural Terminology (CPT) codes that were classified as being related to a major surgical procedure in the 2014–2022 versions of these algorithm. We did not include the small number of Healthcare Common Procedural Coding System (HCPCS) codes in the algorithm, as these typically represented temporary codes.

We created a crosswalk between the 3664 CPT codes and 1082 procedure types. In doing so, we used the following general principles:

- For procedure codes that corresponded to orthopedic procedures involving the upper or lower extremity (eg, arthrodesis and open fracture treatment) as well as for amputation, we lumped codes into a procedure type for upper extremity procedures and a procedure type for lower extremity procedures. The exception was arthroplasty and arthroscopy. For these procedures, we created procedure types for each joint, as these are among the most common indications for post-operative opioid prescriptions.
- For procedure codes that corresponded to procedures on individual vessels and nerves, we lumped codes together (eg, sympathectomy).
- When there were procedure codes for open, percutaneous, or laparoscopic versions of the same procedure (eg, open versus laparoscopic appendectomy), we left them as separate procedure types rather than lumping them together into a single procedure type.
- When there were procedure codes for multiple approaches for the same operation (eg, cervical versus intracranial approach to repair an intracranial aneurysm), we lumped them together into a single procedure type.
- When there were two procedure codes for the same operation with and without some additional intervention (eg, reconstruction or lymphadenectomy), we lumped these codes into a single procedure type.
- When there were procedure codes for benign versus malignant tumors of the same body part, we lumped these codes into a single procedure type.
- When there were body part-specific procedure codes for soft tissue operations (eg, excision of soft tissue lesion on the back), we lumped the codes together into a single procedure. We did the same for procedure codes for specific types of lymphadenectomy and for excision/curettage of a bone cyst or benign tumor for specific body parts.

The crosswalk is included at the end of this Appendix to facilitate use by other investigators.

### 2: METHOD FOR BREAKING TIES BETWEEN PROCEDURE TYPES

We defined the beginning and end of a surgical episode as the procedure date if there were no hospitalizations or observation stays following the claim with the procedure code for surgery, or as the admission and discharge date of any such hospitalizations or observation stays. In most cases, any given surgical episode only included surgical claims that mapped to a single procedure type. When there were multiple procedure types, we selected the procedure with the highest “probability of a dispensed surgical opioid prescription.” Specifically, for each procedure type, we found instances during the study period in which that procedure was the only procedure performed during a surgical episode (eg, instances in which appendectomy occurred and no other major surgical procedures occurred during the episode). The proportion of those instances associated with a dispensed opioid prescription was the probability of a dispensed surgical opioid prescription.

If there were still ties, we selected the procedure type that occurred the most often in the sample. If there was a tie even after taking this additional step, we randomly selected a procedure type.

<b>SUPPLEMENTAL TABLE 4</b> Opioids Included in Sample	
<b>Opioid (strength in mg except where noted)</b>	<b>MME Conversion Factor</b>
Buprenorphine, transdermal patch (MCG/HR)	12.6
Buprenorphine, buccal film (MCG)	0.03
Butorphanol	7
Codeine	0.15
Dihydrocodeine	0.25
Fentanyl, buccal/SL tablet or lozenge/troche (MCG)	0.13
Fentanyl, film or oral spray (MCG)	0.18
Fentanyl, nasal spray (MCG)	0.16
Fentanyl, transdermal patch (MCG/HR)	7.2
Hydrocodone	1
Hydromorphone	4
Levomethadyl acetate	8
Levorphanol tartrate	11
Meperidine	0.1
Methadone	3
Morphine	1
Opium	1
Oxycodone	1.5
Oxymorphone	3
Pentazocine	0.37
Propoxyphene	0.23
Tapentadol	0.4
Tramadol	0.1

<b>SUPPLEMENTAL TABLE 5</b> Sample Inclusion and Exclusion Criteria				
<b>Cohort criteria</b>	<b>COMMERCIAL</b>		<b>MEDICAID</b>	
	<b>Number included</b>	<b>Number excluded</b>	<b>Number included</b>	<b>Number excluded</b>
Surgical procedure episodes between 12/01/2020 and 11/30/2021	1 444 304		815 342	
Age between 0 and 21	138 695	1 305 609	137 666	677 676
Continuous enrollment from discharge to discharge +30 d	125 712	12 983	132 677	4989
No surgical episodes in the 30 d before or after discharge	116 113	9599	113 819	18 858
No hospitalizations in the 30 d after discharge	113 623	2490	110 484	3335
Length of stay after surgery >14 d	112 854	769	108 695	1789
Discharged to home	111 964	890	107 884	811
Valid opioid prescription data	111 507	457	107 496	388

<b>SUPPLEMENTAL TABLE 6</b> Full Results for Patients Aged 0–11 Years						
<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Tonsillectomy and/or adenoidectomy	28 373	19.9%	27.6	1.0%	50.3%	32.6%
Open treatment of fracture, upper extremity	1496	51.5%	54.9	0.7%	5.3%	4.5%
Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	1494	36.5%	36.6	0.3%	3.5%	3.2%
Osteotomy of lower extremity	383	65.3%	105.6	4.4%	2.6%	1.4%
Appendectomy - laparoscopic	2898	13.3%	10.8	0.1%	2.0%	2.2%
Epiphyseal or hemiepiphyseal arrest, lower extremity	291	69.1%	102.3	0.7%	1.9%	1.2%
Orchiopexy	2745	28.7%	10.1	0.1%	1.8%	4.5%
Plastic operation of penis to correct chordee or angulation	2928	25.6%	7.8	0.1%	1.5%	4.3%
Open treatment of fracture, lower extremity	317	56.2%	71.7	2.2%	1.5%	1.0%
Arthroscopy of knee	211	71.1%	92.7	1.4%	1.3%	0.9%
Open treatment of fracture, hip or pelvis	321	52.3%	59.9	2.8%	1.2%	1.0%
Tympanoplasty	917	21.8%	19.4	0.1%	1.1%	1.2%
Palatoplasty	614	47.6%	27.8	0.5%	1.1%	1.7%
Arthrodesis of spine	149	45.6%	100.4	6.7%	1.0%	0.4%
Tendon lengthening or shortening, lower extremity	377	52.0%	35.2	0.8%	0.9%	1.1%
Excision of bone cyst or benign tumor with or without bone grafting	182	63.2%	67.8	1.1%	0.8%	0.7%
Hypospadias repair	1270	37.0%	8.3	0.2%	0.7%	2.7%
Hernia repair, abdominal - open	2597	15.8%	4.0	0.0%	0.7%	2.4%
Skin graft	808	23.3%	12.1	1.0%	0.6%	1.1%
Tendon transfer, lower extremity	225	69.3%	40.3	2.2%	0.6%	0.9%
Reconstruction of foot	55	74.5%	160.9	3.6%	0.6%	0.2%
Graft of bone or cartilage to face	516	28.5%	16.5	0.2%	0.5%	0.8%
Hernia repair, inguinal/femoral - open	2153	11.7%	3.7	0.0%	0.5%	1.4%
Craniectomy or craniotomy	420	23.8%	18.9	0.2%	0.5%	0.6%
Strabismus surgery	5673	4.5%	1.4	0.0%	0.5%	1.5%
Rhinoplasty	355	33.8%	21.3	0.3%	0.5%	0.7%
Osteotomy of pelvis	119	55.5%	63.4	3.4%	0.5%	0.4%
Repair of fistula, oronasal or oromaxillary	78	56.4%	94.7	0.0%	0.5%	0.3%
Laminectomy/corpectomy	287	31.0%	23.6	0.0%	0.4%	0.5%
Ureteroneocystostomy	300	43.0%	22.4	0.3%	0.4%	0.7%
Reconstruction of nonunion or malunion, upper extremity	58	58.6%	115.8	0.0%	0.4%	0.2%
Flap reconstruction	406	45.8%	15.3	0.5%	0.4%	1.1%
Osteotomy of upper extremity	78	60.3%	73.0	0.0%	0.4%	0.3%
Ligamentous reconstruction (augmentation), knee	33	75.8%	159.3	0.0%	0.3%	0.1%
Adjacent tissue transfer or rearrangement	895	13.9%	5.8	0.0%	0.3%	0.7%
Excision or destruction of lingual tonsil, any method (separate procedure)	75	36.0%	68.4	1.3%	0.3%	0.2%
Tenotomy, lower extremity	682	14.5%	7.5	0.0%	0.3%	0.6%
Gastrocnemius recession	94	56.4%	48.3	1.1%	0.3%	0.3%
CSF shunt	334	15.0%	13.4	0.0%	0.3%	0.3%
Excision or curettage of bone cyst or benign tumor	74	59.5%	57.8	2.7%	0.3%	0.3%
Implantation, removal, or replacement of osseointegrated implant, temporal bone	82	34.1%	50.4	0.0%	0.3%	0.2%
Excision of soft tissue lesion	753	7.6%	5.5	0.1%	0.3%	0.3%
Cleft lip repair	209	42.1%	18.7	0.0%	0.3%	0.5%
Inferior turbinate resection or excision	252	12.7%	14.7	0.0%	0.2%	0.2%
Ostectomy of foot and/or toes	39	64.1%	94.7	0.0%	0.2%	0.1%
Cochlear device implantation	351	20.5%	10.0	0.3%	0.2%	0.4%
Reinsertion of spinal fixation device	68	64.7%	51.2	0.0%	0.2%	0.3%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of syndactyly	168	58.3%	20.7	0.6%	0.2%	0.6%
Lengthening of hamstring tendon	72	65.3%	47.0	5.6%	0.2%	0.3%
Trigger finger release	642	15.4%	5.0	0.0%	0.2%	0.6%
Open treatment of slipped femoral epiphysis	68	61.8%	46.5	0.0%	0.2%	0.2%
Repair of blepharoptosis	272	8.5%	11.5	0.0%	0.2%	0.1%
Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator	81	32.1%	35.9	0.0%	0.2%	0.2%
Capsulotomy, foot and/or toes	60	53.3%	46.1	1.7%	0.2%	0.2%
Excision of facial bone or tumor/cyst in facial bone	195	27.7%	13.9	0.0%	0.2%	0.3%
Hernia repair, inguinal/femoral - laparoscopic	894	6.9%	3.0	0.1%	0.2%	0.4%
Debridement of skin, muscle, or bone	239	21.8%	11.0	0.8%	0.2%	0.3%
Excision of thyroglossal duct cyst or sinus	160	15.6%	16.4	0.0%	0.2%	0.1%
Lengthening of palate	35	45.7%	73.7	0.0%	0.2%	0.1%
Cranioplasty	211	32.2%	11.7	0.0%	0.2%	0.4%
Excision of hydrocele	436	19.5%	5.5	0.0%	0.2%	0.5%
Urethromeatoplasty	793	11.5%	2.9	0.0%	0.1%	0.5%
Excision of ganglion, wrist	106	50.0%	21.1	0.0%	0.1%	0.3%
Arthroscopy of elbow	19	52.6%	109.3	0.0%	0.1%	0.1%
Repair of atrial and/or ventricular septal defects	371	24.5%	5.4	0.0%	0.1%	0.5%
Nephrectomy - laparoscopic	145	40.0%	13.4	0.7%	0.1%	0.3%
Arthrotomy of lower extremity	139	23.0%	13.0	0.7%	0.1%	0.2%
Osteoplasty of lower extremity	30	56.7%	58.7	6.7%	0.1%	0.1%
Quadriicepsplasty (eg, Bennett or Thompson type)	10	70.0%	166.1	0.0%	0.1%	0.0%
Reconstruction of face	130	34.6%	12.5	0.0%	0.1%	0.3%
Fasciectomy or fasciotomy	28	57.1%	57.2	0.0%	0.1%	0.1%
Pharyngoplasty	38	31.6%	42.0	2.6%	0.1%	0.1%
Tendon repair, lower extremity	25	48.0%	62.8	0.0%	0.1%	0.1%
Reconstruction of toe	176	35.8%	8.5	0.6%	0.1%	0.4%
Appendectomy - open	115	20.0%	13.0	0.0%	0.1%	0.1%
Tendon repair, upper extremity	53	37.7%	27.9	0.0%	0.1%	0.1%
Tendon transfer, upper extremity	35	71.4%	41.6	0.0%	0.1%	0.1%
Hand tendon repair	66	37.9%	22.0	0.0%	0.1%	0.1%
Reconstruction of dislocating patella	17	70.6%	82.8	0.0%	0.1%	0.1%
Cholecystectomy - laparoscopic	98	21.4%	14.0	1.0%	0.1%	0.1%
Excision of extraparenchymal lesion of testis	231	19.0%	5.8	0.0%	0.1%	0.3%
Nerve repair	79	27.8%	16.9	2.5%	0.1%	0.1%
Division of aberrant vessel (vascular ring)	75	33.3%	17.7	0.0%	0.1%	0.1%
Orchiectomy - laparoscopic	222	23.0%	6.0	0.0%	0.1%	0.3%
Excision of epiphyseal bar	13	46.2%	100.0	0.0%	0.1%	0.0%
Bone resection	57	35.1%	22.8	0.0%	0.1%	0.1%
Arthroscopy of ankle or foot	17	47.1%	74.4	0.0%	0.1%	0.0%
Application of external fixation system	49	44.9%	25.8	6.1%	0.1%	0.1%
Pyeloplasty	144	23.6%	8.4	0.0%	0.1%	0.2%
Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity	26	46.2%	46.0	3.8%	0.1%	0.1%
Nerve decompression	51	45.1%	23.1	0.0%	0.1%	0.1%
Excision of lesion, tendon, tendon sheath, or capsule; foot	31	19.4%	36.9	0.0%	0.1%	0.0%
Reconstruction of congenital hand polydactyly	225	13.8%	5.1	0.0%	0.1%	0.2%
Lymphadenectomy	38	23.7%	30.0	0.0%	0.1%	0.1%
Epiphyseal arrest by epiphysiodesis or stapling, greater trochanter of femur	11	45.5%	97.3	0.0%	0.1%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of nonunion or malunion, foot bones	2	50.0%	525.0	0.0%	0.1%	0.0%
Open treatment of facial fractures	59	28.8%	17.5	0.0%	0.1%	0.1%
Nephrectomy - open	71	38.0%	14.0	2.8%	0.1%	0.2%
Tympanostomy	23 280	0.7%	0.0	0.0%	0.1%	0.9%
Correction of hallux rigidus	27	37.0%	33.7	3.7%	0.1%	0.1%
Arthrodesis of lower extremity	22	36.4%	41.4	0.0%	0.1%	0.0%
Reconstruction of nonunion or malunion, lower extremity	11	54.5%	82.7	9.1%	0.1%	0.0%
Pancreatectomy	7	14.3%	128.6	0.0%	0.1%	0.0%
Intestinal procedure, resection and anastomosis - open	106	4.7%	8.4	0.0%	0.1%	0.0%
Amputation of upper extremity	78	28.2%	11.0	1.3%	0.1%	0.1%
Frenoplasty	617	2.4%	1.4	0.0%	0.1%	0.1%
Orchiectomy - open	209	20.6%	4.0	0.0%	0.1%	0.2%
Intestinal procedure, ileostomy or jejunostomy	18	5.6%	45.8	0.0%	0.1%	0.0%
Amputation of lower extremity	36	41.7%	22.8	2.8%	0.1%	0.1%
Tricuspid or Mitral valve repair/reconstruction - open	76	30.3%	10.7	0.0%	0.1%	0.1%
Tissue expander placement, excluding breast	40	55.0%	20.3	0.0%	0.1%	0.1%
Fixation of contralateral testis	114	28.9%	6.9	0.0%	0.1%	0.2%
Reconstruction of external auditory canal	27	44.4%	28.4	0.0%	0.0%	0.1%
Implantable cardiac device procedures	69	29.0%	10.8	1.4%	0.0%	0.1%
Cutaneous appendico-vesicostomy	35	25.7%	20.3	2.9%	0.0%	0.1%
Bone graft procedure	22	50.0%	32.0	0.0%	0.0%	0.1%
Repair of complex cardiac anomalies	100	23.0%	7.0	2.0%	0.0%	0.1%
Resection of bone tumor	5	100.0%	136.8	0.0%	0.0%	0.0%
Suture of quadriceps or hamstring muscle rupture	5	80.0%	136.8	20.0%	0.0%	0.0%
Exploration of penetrating wound	92	10.9%	7.0	1.1%	0.0%	0.1%
Reduction of torsion of testis	69	27.5%	9.2	0.0%	0.0%	0.1%
Scapulopexy	3	66.7%	210.0	0.0%	0.0%	0.0%
Osteoplasty of upper extremity	12	66.7%	52.1	0.0%	0.0%	0.0%
Excision of branchial cleft cyst, vestige, or fistula	191	8.4%	3.2	0.0%	0.0%	0.1%
Repair or reconstruction of collateral ligament, hand and/or fingers	29	51.7%	20.3	0.0%	0.0%	0.1%
Laryngoscopy, with tumor excision, with or without reconstruction	444	2.9%	1.3	0.0%	0.0%	0.1%
Urethroplasty	38	39.5%	15.4	0.0%	0.0%	0.1%
Excision of lesion of tendon sheath or joint capsule, hand or finger	37	21.6%	15.4	0.0%	0.0%	0.0%
Capsulorrhaphy or reconstruction, wrist	3	66.7%	188.3	0.0%	0.0%	0.0%
Laparoscopic fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method	44	29.5%	12.8	2.3%	0.0%	0.1%
Excision of salivary tumor or salivary gland	73	15.1%	7.7	0.0%	0.0%	0.1%
Removal of instrumentation in spine	15	73.3%	36.9	0.0%	0.0%	0.1%
Biopsy or excision of lymph node(s)	186	7.5%	3.0	0.5%	0.0%	0.1%
Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis	45	40.0%	12.1	0.0%	0.0%	0.1%
Acetabuloplasty	18	66.7%	30.0	0.0%	0.0%	0.1%
Repair of disrupted ligament, ankle	5	80.0%	107.5	0.0%	0.0%	0.0%
Radical resection of tumor, bone	1	100.0%	525.0	100.0%	0.0%	0.0%
Radical resection of tumor, soft tissue	48	22.9%	9.5	0.0%	0.0%	0.1%
Mastoidectomy	27	22.2%	16.5	0.0%	0.0%	0.0%
Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium	20	30.0%	22.1	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of tunica vaginalis hydrocele	75	22.7%	5.7	0.0%	0.0%	0.1%
Fracture of nasal inferior turbinate(s)	219	5.0%	1.9	0.0%	0.0%	0.1%
Graft of fat or other tissue	147	4.8%	2.8	0.0%	0.0%	0.0%
Tenolysis, upper extremity	23	39.1%	17.8	0.0%	0.0%	0.1%
Palatopharyngoplasty	9	22.2%	45.0	0.0%	0.0%	0.0%
Excision of frenum, labial or buccal	2202	0.5%	0.2	0.0%	0.0%	0.1%
Laparoscopic intestinal procedure	62	11.3%	6.4	0.0%	0.0%	0.0%
Closure of cystostomy	13	53.8%	29.9	0.0%	0.0%	0.0%
Salpingo-oophorectomy	3	33.3%	125.0	0.0%	0.0%	0.0%
Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator	2	100.0%	187.5	0.0%	0.0%	0.0%
Pollicization of a digit	12	50.0%	30.5	0.0%	0.0%	0.0%
Excision of synovial cyst of popliteal space	4	75.0%	90.0	0.0%	0.0%	0.0%
Tarsal tunnel release	3	100.0%	114.0	0.0%	0.0%	0.0%
Enucleation of eye	23	21.7%	14.8	0.0%	0.0%	0.0%
Capsulectomy or capsulotomy, hand	13	61.5%	25.9	0.0%	0.0%	0.0%
Cutaneous vesicostomy	31	32.3%	10.8	3.2%	0.0%	0.1%
Scrotoplasty	106	13.2%	3.2	0.0%	0.0%	0.1%
Colectomy and/or proctectomy - open	96	5.2%	3.4	0.0%	0.0%	0.0%
Incision of bone cortex, shoulder and upper extremity	9	22.2%	36.1	0.0%	0.0%	0.0%
Shunt; superior vena cava to pulmonary artery for flow to both lungs (bidirectional Glenn procedure)	58	24.1%	5.6	0.0%	0.0%	0.1%
Decompression fasciotomy of lower extremity	6	83.3%	53.2	0.0%	0.0%	0.0%
Division of sternocleidomastoid	14	14.3%	22.5	0.0%	0.0%	0.0%
Oophrectomy	4	25.0%	75.0	0.0%	0.0%	0.0%
Incision and drainage, thigh or knee region	36	11.1%	7.9	0.0%	0.0%	0.0%
Transfer of tendon of fingers	3	100.0%	92.5	0.0%	0.0%	0.0%
Orbitotomy	163	6.1%	1.7	0.0%	0.0%	0.1%
Excision of local lesion of epididymis	70	20.0%	3.9	0.0%	0.0%	0.1%
Open treatment of clavicle fracture	17	17.6%	16.2	0.0%	0.0%	0.0%
Dacryocystorhinostomy	12	16.7%	22.5	0.0%	0.0%	0.0%
Exploration of spinal fusion	5	80.0%	52.9	0.0%	0.0%	0.0%
Excision of lip	42	11.9%	6.1	0.0%	0.0%	0.0%
Excision of lesion of mucosa and submucosa, vestibule of mouth	39	10.3%	6.5	0.0%	0.0%	0.0%
Hysterectomy - laparoscopic or vaginal	31	6.5%	8.2	0.0%	0.0%	0.0%
Arthrotomy of upper extremity	38	18.4%	6.7	0.0%	0.0%	0.0%
Laryngoplasty	29	6.9%	8.7	0.0%	0.0%	0.0%
Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity	3	66.7%	82.8	0.0%	0.0%	0.0%
Tenolysis, lower extremity	7	57.1%	35.4	0.0%	0.0%	0.0%
Osteotomy of facial bones	10	50.0%	24.6	0.0%	0.0%	0.0%
Excision of pilonidal cyst or sinus	10	20.0%	24.0	0.0%	0.0%	0.0%
Aortic valve repair/replacement - open	24	33.3%	9.7	0.0%	0.0%	0.0%
Pulmonary valve repair/replacement - open	30	23.3%	7.5	0.0%	0.0%	0.0%
Arthroscopy of shoulder	4	25.0%	56.3	0.0%	0.0%	0.0%
Stapedectomy or stapedotomy	7	28.6%	31.8	0.0%	0.0%	0.0%
Lateral retinacular release - open	8	62.5%	27.6	0.0%	0.0%	0.0%
Removal of tissue expander(s) without insertion of prosthesis	13	38.5%	16.3	0.0%	0.0%	0.0%
Arterial bypass	7	42.9%	29.7	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Laparoscopic gastrostomy, without construction of gastric tube	656	1.7%	0.3	0.0%	0.0%	0.1%
Colostomy - laparoscopic	26	11.5%	7.8	0.0%	0.0%	0.0%
Lipectomy, with or without excessive skin removal	12	50.0%	16.5	0.0%	0.0%	0.0%
Osteotomy of clavicle	3	66.7%	65.0	0.0%	0.0%	0.0%
Coronoidectomy	3	66.7%	63.0	33.3%	0.0%	0.0%
Thoracotomy, with exploration	1	100.0%	187.5	0.0%	0.0%	0.0%
Arthrodesis of upper extremity	10	40.0%	18.0	0.0%	0.0%	0.0%
Arthroscopy of hip	4	50.0%	45.0	0.0%	0.0%	0.0%
Excision of breast lesion	25	12.0%	6.8	0.0%	0.0%	0.0%
Intracranial arteriovenous malformation repair	18	22.2%	9.3	0.0%	0.0%	0.0%
Repair of retinal detachment	63	4.8%	2.7	0.0%	0.0%	0.0%
Tetralogy of Fallot repair	40	15.0%	4.2	0.0%	0.0%	0.0%
Epiphyseal arrest by epiphysiodesis or stapling; distal radius and/or ulna	4	50.0%	41.6	0.0%	0.0%	0.0%
Arthroplasty of forearm or hand	6	83.3%	27.1	0.0%	0.0%	0.0%
Conjunctival flap	31	22.6%	5.2	0.0%	0.0%	0.0%
Repair of atrioventricular canal	66	19.7%	2.4	0.0%	0.0%	0.1%
Insertion of testicular prosthesis	2	100.0%	80.3	0.0%	0.0%	0.0%
Ureteroureterostomy	20	30.0%	7.6	0.0%	0.0%	0.0%
Decompression fasciotomy of upper extremity	5	40.0%	30.0	0.0%	0.0%	0.0%
Arthroplasty of temporomandibular joint	2	50.0%	75.0	0.0%	0.0%	0.0%
Tenodesis, hand	2	50.0%	75.0	0.0%	0.0%	0.0%
Osteochondral allograft, knee - open	1	100.0%	150.0	0.0%	0.0%	0.0%
Repair of ruptured musculotendinous cuff - open	1	100.0%	150.0	0.0%	0.0%	0.0%
Splenectomy - laparoscopic	30	16.7%	4.9	0.0%	0.0%	0.0%
Muscle transfer, upper extremity	9	55.6%	16.1	0.0%	0.0%	0.0%
Suture of infrapatellar tendon	6	50.0%	24.0	0.0%	0.0%	0.0%
Lung resection	40	20.0%	3.6	0.0%	0.0%	0.0%
Closure of enterostomy	35	17.1%	4.1	0.0%	0.0%	0.0%
Thyroidectomy, with or without lymphadenectomy	17	17.6%	8.3	0.0%	0.0%	0.0%
Secondary closure of surgical wound or dehiscence	30	20.0%	4.7	0.0%	0.0%	0.0%
Repair of ruptured Achilles tendon	4	50.0%	35.0	0.0%	0.0%	0.0%
Arthroplasty of knee	2	50.0%	70.0	0.0%	0.0%	0.0%
Breast implant	2	50.0%	70.0	0.0%	0.0%	0.0%
Excision of coarctation of aorta	68	11.8%	2.0	0.0%	0.0%	0.0%
Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver; direct or inductive coupling	4	75.0%	34.5	0.0%	0.0%	0.0%
Excision of tendon of hand or finger	3	100.0%	44.2	0.0%	0.0%	0.0%
Removal of implant; superficial (eg, buried wire, pin or rod)	456	1.1%	0.3	0.0%	0.0%	0.0%
Surgical closure tracheostomy or fistula, with or without plastic repair	109	3.7%	1.2	0.9%	0.0%	0.0%
Revision of urinary-cutaneous anastomosis	17	35.3%	7.7	0.0%	0.0%	0.0%
Direct or patch closure, sinus venosus, with or without anomalous pulmonary venous drainage	18	27.8%	7.2	0.0%	0.0%	0.0%
Uvulectomy, excision of uvula	6	33.3%	21.5	0.0%	0.0%	0.0%
Removal of implanted material, eye	12	16.7%	10.5	0.0%	0.0%	0.0%
Elevation of depressed skull fracture	24	16.7%	5.2	0.0%	0.0%	0.0%
Laparoscopic bladder procedure	6	33.3%	20.7	0.0%	0.0%	0.0%
Enterolysis - open	28	7.1%	4.4	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Glossectomy	9	33.3%	13.6	0.0%	0.0%	0.0%
Resection of palate or extensive resection of lesion	2	50.0%	60.0	0.0%	0.0%	0.0%
Repair of cleft hand	9	66.7%	13.1	0.0%	0.0%	0.0%
Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle	6	50.0%	19.4	0.0%	0.0%	0.0%
Open treatment of spinal fracture	6	33.3%	19.0	0.0%	0.0%	0.0%
Aortoplasty (gusset) for supravalvular stenosis	6	66.7%	18.9	0.0%	0.0%	0.0%
Liver resection	6	50.0%	18.8	0.0%	0.0%	0.0%
Repair of eye laceration	36	11.1%	3.1	0.0%	0.0%	0.0%
Plastic repair of introitus	7	85.7%	16.0	14.3%	0.0%	0.0%
Centralization of wrist on ulna	9	55.6%	12.2	0.0%	0.0%	0.0%
Excision of urachal cyst or sinus	63	9.5%	1.7	0.0%	0.0%	0.0%
Cystotomy or cystostomy	35	14.3%	3.1	0.0%	0.0%	0.0%
Hernia repair, abdominal - laparoscopic	74	6.8%	1.4	0.0%	0.0%	0.0%
Repair of isolated partial anomalous pulmonary venous return (eg, Scimitar Syndrome)	8	37.5%	13.3	0.0%	0.0%	0.0%
Excision of neuroma, neurofibroma, or neurolemmoma	82	3.7%	1.2	0.0%	0.0%	0.0%
Plastic operation of penis for injury	8	25.0%	12.5	0.0%	0.0%	0.0%
Omentectomy, epiploectomy, resection of omentum	6	33.3%	16.7	0.0%	0.0%	0.0%
Excision of spermatocele, with or without epididymectomy	1	100.0%	100.0	0.0%	0.0%	0.0%
Reconstructive repair of pectus excavatum or carinatum	4	25.0%	24.8	0.0%	0.0%	0.0%
Laparoscopic abdominal procedure	57	5.3%	1.7	0.0%	0.0%	0.0%
Splenectomy - open	6	33.3%	16.3	0.0%	0.0%	0.0%
Rib excision	4	50.0%	24.4	0.0%	0.0%	0.0%
Neuroendoscopy, intracranial	54	5.6%	1.8	0.0%	0.0%	0.0%
Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis	9	33.3%	10.7	0.0%	0.0%	0.0%
Repair of entropion	49	6.1%	1.9	0.0%	0.0%	0.0%
Colporrhaphy	23	8.7%	4.1	0.0%	0.0%	0.0%
Gastrostomy	44	6.8%	2.1	0.0%	0.0%	0.0%
Ventriculocisternostomy, third ventricle	44	2.3%	2.0	0.0%	0.0%	0.0%
Excision of dermoid cyst, nose	18	11.1%	5.0	0.0%	0.0%	0.0%
Aortic reconstruction/repair	9	33.3%	10.0	0.0%	0.0%	0.0%
Canthoplasty	7	14.3%	12.9	0.0%	0.0%	0.0%
Tenotomy, upper extremity	6	33.3%	15.0	0.0%	0.0%	0.0%
Sinusotomy, with or without reconstruction	3	33.3%	30.0	0.0%	0.0%	0.0%
Excision of lesion or tumor, dentoalveolar structures	2	50.0%	45.0	0.0%	0.0%	0.0%
Arthroscopy of wrist	1	100.0%	90.0	0.0%	0.0%	0.0%
Repair of dural/cerebrospinal fluid leak, not requiring laminectomy	1	100.0%	90.0	0.0%	0.0%	0.0%
Vaginectomy	1	100.0%	90.0	0.0%	0.0%	0.0%
Incision of bone cortex, pelvis and lower extremity	39	7.7%	2.3	0.0%	0.0%	0.0%
Application of halo, including removal	12	25.0%	7.3	0.0%	0.0%	0.0%
Cataract removal	147	3.4%	0.6	0.0%	0.0%	0.0%
Varicocele repair	8	37.5%	10.2	0.0%	0.0%	0.0%
Incision and drainage of abscess in posterior spine	3	33.3%	26.8	0.0%	0.0%	0.0%
Ovarian cystectomy	7	42.9%	11.0	0.0%	0.0%	0.0%
Incision and drainage, pelvis or hip joint area	11	9.1%	6.8	0.0%	0.0%	0.0%
Vermilionectomy, with mucosal advancement	3	33.3%	25.0	0.0%	0.0%	0.0%
Repair of arteriovenous fistula, congenital	2	50.0%	37.5	0.0%	0.0%	0.0%
Thrombectomy or thrombolysis, percutaneous intracranial	2	50.0%	37.5	0.0%	0.0%	0.0%
Nerve transection	6	66.7%	12.4	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of patent ductus arteriosus	44	20.5%	1.6	0.0%	0.0%	0.1%
Arterial transposition	4	50.0%	17.5	0.0%	0.0%	0.0%
Repair of imperforate anus	105	1.9%	0.6	0.0%	0.0%	0.0%
Umbilectomy, omphalectomy, excision of umbilicus	35	8.6%	1.9	0.0%	0.0%	0.0%
Laparoscopic ovarian procedure	13	7.7%	5.2	0.0%	0.0%	0.0%
Alveoplasty	6	16.7%	11.3	0.0%	0.0%	0.0%
Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release	4	50.0%	15.4	0.0%	0.0%	0.0%
Esophagogastric fundoplasty	12	16.7%	5.1	0.0%	0.0%	0.0%
Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion	13	23.1%	4.7	0.0%	0.0%	0.0%
Colpoperineorrhaphy	25	4.0%	2.4	0.0%	0.0%	0.0%
Adrenalectomy - laparoscopic	9	22.2%	6.7	0.0%	0.0%	0.0%
Insertion of orbital implant	4	25.0%	15.0	0.0%	0.0%	0.0%
Vulvectomy	4	25.0%	15.0	0.0%	0.0%	0.0%
Excision of radial head	2	50.0%	30.0	0.0%	0.0%	0.0%
Parathyroidectomy	1	100.0%	60.0	0.0%	0.0%	0.0%
Intestinal procedure, lysis of adhesions	42	4.8%	1.4	0.0%	0.0%	0.0%
Repair of encephalocele, skull vault, including cranioplasty	15	13.3%	3.9	0.0%	0.0%	0.0%
Resection of metatarsal or toe	5	40.0%	11.7	0.0%	0.0%	0.0%
Intestinal procedure, repair	15	13.3%	3.8	0.0%	0.0%	0.0%
Aqueous shunt to extraocular equatorial plate reservoir	32	9.4%	1.7	0.0%	0.0%	0.0%
Closure of ureterocutaneous fistula	12	16.7%	4.5	0.0%	0.0%	0.0%
Anoplasty	14	7.1%	3.8	0.0%	0.0%	0.0%
Muscle repair, hand	1	100.0%	50.0	0.0%	0.0%	0.0%
Reconstruction of hand interphalangeal joint	1	100.0%	50.0	0.0%	0.0%	0.0%
Transureteroureterostomy	2	100.0%	24.8	0.0%	0.0%	0.0%
Cholecystectomy - open	7	14.3%	6.9	0.0%	0.0%	0.0%
Removal of synthetic rod and insertion of tendon graft in hand or finger	2	50.0%	23.8	0.0%	0.0%	0.0%
Repair of pulmonary artery stenosis by reconstruction with patch or graft	26	19.2%	1.8	0.0%	0.0%	0.0%
Destruction of localized lesion of retina	75	2.7%	0.6	0.0%	0.0%	0.0%
Stereotactic implantation of depth electrodes into the cerebrum for long-term seizure monitoring	21	9.5%	2.1	0.0%	0.0%	0.0%
Replantation, upper extremity	7	14.3%	6.4	14.3%	0.0%	0.0%
Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury	6	16.7%	7.5	0.0%	0.0%	0.0%
Exploration of artery without surgical repair	1	100.0%	45.0	0.0%	0.0%	0.0%
Gender affirming procedure, vaginoplasty	7	42.9%	6.1	0.0%	0.0%	0.0%
Vesiculotomy	1	100.0%	42.1	0.0%	0.0%	0.0%
Vestibuloplasty	9	33.3%	4.7	0.0%	0.0%	0.0%
Resection of mediastinal tumor	8	25.0%	5.3	12.5%	0.0%	0.0%
Surgical treatment of anal fistula	18	11.1%	2.3	0.0%	0.0%	0.0%
Enterolysis - laparoscopic	23	4.3%	1.7	0.0%	0.0%	0.0%
Excision or destruction - intra-abdominal tumors, cysts or endometriomas	26	11.5%	1.5	0.0%	0.0%	0.0%
Osteoplasty of facial bones	6	16.7%	6.5	0.0%	0.0%	0.0%
Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury	13	7.7%	2.9	7.7%	0.0%	0.0%
Biliary reconstruction - open	12	8.3%	3.1	0.0%	0.0%	0.0%
Reimplantation of an anomalous pulmonary artery	3	33.3%	12.5	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Excision of lesion of spermatic cord	7	28.6%	4.9	0.0%	0.0%	0.0%
Removal of lens material	63	3.2%	0.5	0.0%	0.0%	0.0%
Repair of pulmonary venous stenosis	9	44.4%	3.3	0.0%	0.0%	0.0%
Excision of chest wall tumor, including ribs	8	12.5%	3.8	0.0%	0.0%	0.0%
Tendon lengthening or shortening, upper extremity	8	12.5%	3.8	0.0%	0.0%	0.0%
Repair of round window fistula	5	20.0%	6.0	0.0%	0.0%	0.0%
Capsulectomy or capsulotomy, hip	3	33.3%	10.0	0.0%	0.0%	0.0%
Diaphragmatic repair	3	33.3%	10.0	0.0%	0.0%	0.0%
Excision of prepatellar bursa	3	33.3%	10.0	0.0%	0.0%	0.0%
Resection or excision of neoplastic, vascular or infectious lesion, intracranial	3	33.3%	10.0	0.0%	0.0%	0.0%
Extensor tendon centralization, hand	2	50.0%	15.0	0.0%	0.0%	0.0%
CABG	1	100.0%	30.0	0.0%	0.0%	0.0%
Mastopexy	1	100.0%	30.0	0.0%	0.0%	0.0%
Release of intrinsic muscles of hand	1	100.0%	30.0	0.0%	0.0%	0.0%
Colectomy and/or proctectomy - laparoscopic	54	3.7%	0.5	0.0%	0.0%	0.0%
Keratoplasty	13	23.1%	2.2	0.0%	0.0%	0.0%
Thoracoscopy, with partial or complete lung removal	63	4.8%	0.4	0.0%	0.0%	0.0%
Repair of cor triatriatum or supra-ventricular mitral ring by resection of left atrial membrane	2	100.0%	12.8	0.0%	0.0%	0.0%
Repair of anomalous coronary artery from pulmonary artery origin	16	6.3%	1.6	0.0%	0.0%	0.0%
Urethrectomy, total, including cystostomy	2	100.0%	12.5	0.0%	0.0%	0.0%
Repair of choanal atresia	31	3.2%	0.8	0.0%	0.0%	0.0%
Esophagoplasty	13	7.7%	1.8	0.0%	0.0%	0.0%
Repair of double outlet right ventricle with intraventricular tunnel repair	9	11.1%	2.7	0.0%	0.0%	0.0%
Laparoscopic esophagus fundoplasty	83	1.2%	0.3	0.0%	0.0%	0.0%
Medianstomy	8	12.5%	2.8	0.0%	0.0%	0.0%
Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection	5	60.0%	4.5	0.0%	0.0%	0.0%
Hand, soft tissue reconstruction	3	33.3%	7.5	0.0%	0.0%	0.0%
Excision of Meckel diverticulum or omphalomesenteric duct	19	10.5%	1.1	0.0%	0.0%	0.0%
Exclusion or fulguration of urethra	13	15.4%	1.4	0.0%	0.0%	0.0%
Closure of gastrocolic fistula	11	9.1%	1.6	0.0%	0.0%	0.0%
Facial nerve reconstruction or repair	2	50.0%	9.0	0.0%	0.0%	0.0%
Repair of paraesophageal hiatal hernia (including fundoplication)	9	22.2%	1.9	0.0%	0.0%	0.0%
Laparoscopic sling operation for stress incontinence (eg, fascia or synthetic)	1	100.0%	16.5	0.0%	0.0%	0.0%
Temporary closure of eyelids by suture	22	4.5%	0.7	0.0%	0.0%	0.0%
Ureterostomy, transplantation of ureter to skin	11	9.1%	1.4	0.0%	0.0%	0.0%
Coccygectomy, primary	5	20.0%	3.0	0.0%	0.0%	0.0%
Cystolithotomy, cystotomy with removal of calculus	3	33.3%	5.0	0.0%	0.0%	0.0%
Aneurysm/pseudoaneurysm repair	1	100.0%	15.0	0.0%	0.0%	0.0%
Excision of urethral diverticulum	3	66.7%	3.9	0.0%	0.0%	0.0%
Excision of cystic hygroma	9	11.1%	1.3	0.0%	0.0%	0.0%
Percutaneous coronary procedures	681	0.4%	0.0	0.0%	0.0%	0.0%
Exploration for postoperative hemorrhage, thrombosis or infection	2	50.0%	5.0	0.0%	0.0%	0.0%
Laparoscopic testicular procedure	8	12.5%	1.1	0.0%	0.0%	0.0%
Transcatheter intracardiac shunt creation	10	10.0%	0.8	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Excision of exostosis(es), external auditory canal	4	25.0%	1.9	0.0%	0.0%	0.0%
Division of scalenus anticus	2	50.0%	3.8	0.0%	0.0%	0.0%
Syndactylization, toes	2	50.0%	3.8	0.0%	0.0%	0.0%
Ureteropyelostomy, anastomosis of ureter and renal pelvis	1	100.0%	7.5	0.0%	0.0%	0.0%
Vitrectomy	75	9.3%	0.1	0.0%	0.0%	0.0%
Ciliary body destruction	53	15.1%	0.1	0.0%	0.0%	0.0%
Reconstruction of mandible or maxilla	7	14.3%	0.9	0.0%	0.0%	0.0%
Plastic repair of salivary duct, sialodochoplasty	6	16.7%	0.8	0.0%	0.0%	0.0%
Cystoplasty or cystourethroplasty	1	100.0%	5.0	0.0%	0.0%	0.0%
Tracheostoma revision	54	1.9%	0.1	0.0%	0.0%	0.0%
Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material	10	10.0%	0.4	0.0%	0.0%	0.0%
Removal or repair of electromagnetic bone conduction hearing device in temporal bone	3	33.3%	0.8	0.0%	0.0%	0.0%
Severing adhesions of anterior segment of eye	7	28.6%	0.2	0.0%	0.0%	0.0%
Drainage of peritoneal abscess - open	9	11.1%	0.2	0.0%	0.0%	0.0%
Laparoscopic stomach procedure	244	0.0%	0.0	0.0%	0.0%	0.0%
Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters	168	0.0%	0.0	0.0%	0.0%	0.0%
Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)	157	0.0%	0.0	0.0%	0.0%	0.0%
Transcatheter placement of intravascular stent - percutaneous or open	147	0.0%	0.0	0.0%	0.0%	0.0%
Placement of needle for intraosseous infusion	119	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, resection and closure of enterostomy	87	0.0%	0.0	0.0%	0.0%	0.0%
Intravitreal injection of a pharmacologic agent	84	0.0%	0.0	0.0%	0.0%	0.0%
Plastic repair of canaliculi	67	0.0%	0.0	0.0%	0.0%	0.0%
Colostomy - open	47	0.0%	0.0	0.0%	0.0%	0.0%
Removal of vitreous, anterior approach	40	0.0%	0.0	0.0%	0.0%	0.0%
Burr hole(s) or trephine	36	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic repair of paraesophageal hernia	31	0.0%	0.0	0.0%	0.0%	0.0%
Exploratory laparotomy	27	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, intestinal hernia and volvulus derotation open laparotomy	26	0.0%	0.0	0.0%	0.0%	0.0%
Atrial septectomy or septostomy	24	0.0%	0.0	0.0%	0.0%	0.0%
Insertion or replacement of cranial neurostimulator pulse generator or receiver	24	0.0%	0.0	0.0%	0.0%	0.0%
Tracheostomy	22	0.0%	0.0	0.0%	0.0%	0.0%
Thoracoscopy, excision of pericardial or mediastinal mass	19	0.0%	0.0	0.0%	0.0%	0.0%
Diaphragmatic hernia repair (neonatal)	17	0.0%	0.0	0.0%	0.0%	0.0%
Trabeculectomy ab externo	17	0.0%	0.0	0.0%	0.0%	0.0%
Closure of the lacrimal punctum	16	0.0%	0.0	0.0%	0.0%	0.0%
Excision and repair of eyelid	16	0.0%	0.0	0.0%	0.0%	0.0%
Injection of medication or other substance into Tenon's capsule	14	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, resection and enterostomy	14	0.0%	0.0	0.0%	0.0%	0.0%
Repair of omphalocele or gastroschisis	14	0.0%	0.0	0.0%	0.0%	0.0%
Twist drill hole for subdural, intracerebral, or ventricular puncture	14	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic appendix procedure	13	0.0%	0.0	0.0%	0.0%	0.0%
Transcatheter pulmonary valve implantation	13	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Banding of pulmonary artery	12	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage, leg or ankle	12	0.0%	0.0	0.0%	0.0%	0.0%
Thoracoscopy, with pulmonary decortication	12	0.0%	0.0	0.0%	0.0%	0.0%
Thymectomy, with or without lymphadenectomy	12	0.0%	0.0	0.0%	0.0%	0.0%
Closure of intestinal fistula	11	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of eyelid	11	0.0%	0.0	0.0%	0.0%	0.0%
Repair of meningocele or myelomeningocele	11	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of breast abscess	10	0.0%	0.0	0.0%	0.0%	0.0%
Excision of presacral or sacrococcygeal tumor	10	0.0%	0.0	0.0%	0.0%	0.0%
Insertion of intraocular lens prosthesis, not associated with concurrent cataract removal	10	0.0%	0.0	0.0%	0.0%	0.0%
Repair of blood vessel	10	0.0%	0.0	0.0%	0.0%	0.0%
Transplantation of kidneys	9	0.0%	0.0	0.0%	0.0%	0.0%
Enterotomy	8	0.0%	0.0	0.0%	0.0%	0.0%
Epiglottidectomy	8	0.0%	0.0	0.0%	0.0%	0.0%
Excision of rectal procidentia	8	0.0%	0.0	0.0%	0.0%	0.0%
Excision of rectal tumor, transanal, transsacral, transcoccygeal	8	0.0%	0.0	0.0%	0.0%	0.0%
Portoenterostomy	8	0.0%	0.0	0.0%	0.0%	0.0%
Adrenalectomy - open	7	0.0%	0.0	0.0%	0.0%	0.0%
Debridement of sternum	7	0.0%	0.0	0.0%	0.0%	0.0%
Fistulization of sclera for glaucoma	7	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth	7	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic hernia repair	7	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic ureteral procedure	7	0.0%	0.0	0.0%	0.0%	0.0%
Nasal/sinus endoscopy	7	0.0%	0.0	0.0%	0.0%	0.0%
Proctoplasty	7	0.0%	0.0	0.0%	0.0%	0.0%
Revision of aqueous shunt to extraocular equatorial plate reservoir	7	0.0%	0.0	0.0%	0.0%	0.0%
Colotomy	6	0.0%	0.0	0.0%	0.0%	0.0%
Creation of pericardial window	6	0.0%	0.0	0.0%	0.0%	0.0%
ECMO	6	0.0%	0.0	0.0%	0.0%	0.0%
Exploration, retroperitoneal area with or without biopsy(s)	6	0.0%	0.0	0.0%	0.0%	0.0%
Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone	6	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of rectal, perirectal, or perianal abscess	6	0.0%	0.0	0.0%	0.0%	0.0%
Liver transplantation	6	0.0%	0.0	0.0%	0.0%	0.0%
Pericardial drainage	6	0.0%	0.0	0.0%	0.0%	0.0%
Revision of tracheostomy scar	6	0.0%	0.0	0.0%	0.0%	0.0%
Cartilage graft	5	0.0%	0.0	0.0%	0.0%	0.0%
Control of nasopharyngeal or oropharyngeal hemorrhage	5	0.0%	0.0	0.0%	0.0%	0.0%
Diaphragmatic hernia repair (other than neonatal)	5	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion of tongue	5	0.0%	0.0	0.0%	0.0%	0.0%
Exploration for congenital atresia of bile ducts, without repair	5	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of abscess; retropharyngeal or parapharyngeal	5	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, resection and anastomosis - laparoscopic	5	0.0%	0.0	0.0%	0.0%	0.0%
Iridectomy, with corneoscleral or corneal section	5	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic rectal procedure	5	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Thoracoscopy, with pleurodesis	5	0.0%	0.0	0.0%	0.0%	0.0%
Tracheoplasty	5	0.0%	0.0	0.0%	0.0%	0.0%
Creation of lesion by stereotactic method	4	0.0%	0.0	0.0%	0.0%	0.0%
Cystorrhaphy, suture of bladder wound, injury or rupture	4	0.0%	0.0	0.0%	0.0%	0.0%
Destruction of lesion(s), anus	4	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of salivary gland abscess	4	0.0%	0.0	0.0%	0.0%	0.0%
Excision of tendon, hand	4	0.0%	0.0	0.0%	0.0%	0.0%
Excision or transposition of pterygium	4	0.0%	0.0	0.0%	0.0%	0.0%
Gastric bypass	4	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, strictuloplasty	4	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic enterotomy closure	4	0.0%	0.0	0.0%	0.0%	0.0%
Neurostimulator procedures	4	0.0%	0.0	0.0%	0.0%	0.0%
Perineoplasty, repair of perineum, nonobstetrical	4	0.0%	0.0	0.0%	0.0%	0.0%
Pharyngoesophageal repair	4	0.0%	0.0	0.0%	0.0%	0.0%
Placement of enterostomy or cecostomy, tube open	4	0.0%	0.0	0.0%	0.0%	0.0%
Removal of foreign body, intraocular	4	0.0%	0.0	0.0%	0.0%	0.0%
Repair of wound, extraocular muscle, tendon and/or Tenon's capsule	4	0.0%	0.0	0.0%	0.0%	0.0%
Cesarean section	3	0.0%	0.0	0.0%	0.0%	0.0%
Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy	3	0.0%	0.0	0.0%	0.0%	0.0%
Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Cricopharyngeal myotomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Excision of vaginal cyst or tumor	3	0.0%	0.0	0.0%	0.0%	0.0%
Goniotomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Incision of tendon sheath of wrist	3	0.0%	0.0	0.0%	0.0%	0.0%
Laryngeal reinnervation by neuromuscular pedicle	3	0.0%	0.0	0.0%	0.0%	0.0%
Ligation of blood vessels	3	0.0%	0.0	0.0%	0.0%	0.0%
Paracentesis of anterior chamber of eye	3	0.0%	0.0	0.0%	0.0%	0.0%
Pyloroplasty	3	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of fingertip	3	0.0%	0.0	0.0%	0.0%	0.0%
Release of extensive scar tissue without detaching extraocular muscle (separate procedure)	3	0.0%	0.0	0.0%	0.0%	0.0%
Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty	3	0.0%	0.0	0.0%	0.0%	0.0%
Repair of pulmonary atresia with ventricular septal defect, by construction or replacement of conduit from right or left ventricle to pulmonary artery	3	0.0%	0.0	0.0%	0.0%	0.0%
Right ventricular resection for infundibular stenosis	3	0.0%	0.0	0.0%	0.0%	0.0%
Sialolithotomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Synovectomy, hand	3	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with cyst, mass, or foreign body removal	3	0.0%	0.0	0.0%	0.0%	0.0%
Urethrorrhaphy	3	0.0%	0.0	0.0%	0.0%	0.0%
Venous bypass, abdominal - open	3	0.0%	0.0	0.0%	0.0%	0.0%
Aortic suspension for tracheal decompression	2	0.0%	0.0	0.0%	0.0%	0.0%
Capsulotomy, posterior capsular release, knee	2	0.0%	0.0	0.0%	0.0%	0.0%
Closure of lacrimal fistula	2	0.0%	0.0	0.0%	0.0%	0.0%
Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa	2	0.0%	0.0	0.0%	0.0%	0.0%
Division of plantar fascia and muscle	2	0.0%	0.0	0.0%	0.0%	0.0%
Embolectomy or thrombectomy	2	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Esophagostomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of external ear	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion of meniscus or capsule, knee	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion, conjunctiva	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of osseous tuberosities, dentoalveolar structures	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of tracheal tumor or carcinoma	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of vaginal septum	2	0.0%	0.0	0.0%	0.0%	0.0%
Exploration, repair, and presacral drainage for rectal injury	2	0.0%	0.0	0.0%	0.0%	0.0%
Fissurectomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Gastrojejunostomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Heart transplant	2	0.0%	0.0	0.0%	0.0%	0.0%
Insertion of subcutaneous reservoir, pump or continuous infusion system for connection to ventricular catheter (CNS)	2	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization	2	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic biliary procedure	2	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic liver procedure	2	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic lysis of adhesions	2	0.0%	0.0	0.0%	0.0%	0.0%
Laparotomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Nasal septum reconstruction	2	0.0%	0.0	0.0%	0.0%	0.0%
Osteotomy of spine	2	0.0%	0.0	0.0%	0.0%	0.0%
Parotid duct diversion	2	0.0%	0.0	0.0%	0.0%	0.0%
Proctopexy - open	2	0.0%	0.0	0.0%	0.0%	0.0%
Pyelotomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of vena cava, any method	2	0.0%	0.0	0.0%	0.0%	0.0%
Removal of foreign body from deep penile tissue (eg, plastic implant)	2	0.0%	0.0	0.0%	0.0%	0.0%
Removal or revision of orbital implant	2	0.0%	0.0	0.0%	0.0%	0.0%
Repair of ectropion	2	0.0%	0.0	0.0%	0.0%	0.0%
Repair of transposition of the great arteries	2	0.0%	0.0	0.0%	0.0%	0.0%
Resection of scrotum	2	0.0%	0.0	0.0%	0.0%	0.0%
Revision of cranial neurostimulator pulse generator or receiver	2	0.0%	0.0	0.0%	0.0%	0.0%
Revision or repair of operative wound of anterior segment of eye	2	0.0%	0.0	0.0%	0.0%	0.0%
Sling operation for stress incontinence	2	0.0%	0.0	0.0%	0.0%	0.0%
Thoracoscopy, with thymectomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with control of traumatic hemorrhage and/or repair of lung tear	2	0.0%	0.0	0.0%	0.0%	0.0%
Transoral approach to skull base, brain stem or upper spinal cord for biopsy	2	0.0%	0.0	0.0%	0.0%	0.0%
Abdominal wall repair, dehiscence	1	0.0%	0.0	0.0%	0.0%	0.0%
Ablation of intra-abdominal tumor or benign lesion - laparoscopic	1	0.0%	0.0	0.0%	0.0%	0.0%
Acromioplasty or acromionectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Amputation of penis	1	0.0%	0.0	0.0%	0.0%	0.0%
Arteriovenous fistula creation or reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Biceps tenodesis or reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Biliary reconstruction - laparoscopic	1	0.0%	0.0	0.0%	0.0%	0.0%
Bypass graft	1	0.0%	0.0	0.0%	0.0%	0.0%
Closure of aortico-left ventricular tunnel	1	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Correction of lagophthalmos	1	0.0%	0.0	0.0%	0.0%	0.0%
Correction of lid retraction	1	0.0%	0.0	0.0%	0.0%	0.0%
Dissection of vitreous strands (without removal), pars plana approach	1	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of extraperitoneal lymphocele to peritoneal cavity - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of retroperitoneal abscess - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Duodenotomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Ectopic pregnancy surgery	1	0.0%	0.0	0.0%	0.0%	0.0%
Elbow ligament reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Esophagectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Esophagogastrostomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Esophagojejunostomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Exchange of intraocular lens	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of aural glomus tumor	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of carotid body tumor	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of cyst or adenoma of thyroid, or transection of isthmus	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of intra and extracranial benign tumor of cranial bone	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lacrimal sac	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion of pancreas (eg, cyst, adenoma)	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of pelvic pressure ulcer	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of tonsil tags	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of trochanteric bursa or calcification	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision or unroofing of cyst(s) of kidney	1	0.0%	0.0	0.0%	0.0%	0.0%
Exploration of orbit (transcranial approach)	1	0.0%	0.0	0.0%	0.0%	0.0%
Gingivoplasty	1	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of appendiceal abscess - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Infratemporal pre-auricular approach to middle cranial fossa	1	0.0%	0.0	0.0%	0.0%	0.0%
Intracranial aneurysm repair - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Krukenberg procedure	1	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic salpingostomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Laryngectomy, pharyngectomy, pharyngolaryngectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Ligation or banding of angioaccess arteriovenous fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Liver debridement	1	0.0%	0.0	0.0%	0.0%	0.0%
Lysis of adhesions (salpingolysis, ovariolysis)	1	0.0%	0.0	0.0%	0.0%	0.0%
Myomectomy, anorectal	1	0.0%	0.0	0.0%	0.0%	0.0%
Open treatment of rib fracture	1	0.0%	0.0	0.0%	0.0%	0.0%
Ostectomy of scapula	1	0.0%	0.0	0.0%	0.0%	0.0%
Patellectomy or hemipatellectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Penile prostheses	1	0.0%	0.0	0.0%	0.0%	0.0%
Ptosis correction	1	0.0%	0.0	0.0%	0.0%	0.0%
Radical excision of bursa, synovia of wrist, or forearm	1	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of hand contracture release	1	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of tendon pulley; finger	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of entire lumbosubarachnoid shunt system without replacement	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of hip prosthesis	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of implant from finger or hand	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of anterior palate, including vomer flap	1	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 6** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of cardiac wound	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of dural/cerebrospinal fluid leak or pseudomeningocele, with laminectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of iris, ciliary body	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of postinfarction ventricular septal defect	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of pulmonary artery arborization anomalies by unifocalization	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of single ventricle with aortic outflow obstruction and aortic arch hypoplasia	1	0.0%	0.0	0.0%	0.0%	0.0%
Replacement of tissue expander with permanent prosthesis	1	0.0%	0.0	0.0%	0.0%	0.0%
Replacement of ventricular assist device	1	0.0%	0.0	0.0%	0.0%	0.0%
Repositioning of intraocular lens prosthesis, requiring an incision	1	0.0%	0.0	0.0%	0.0%	0.0%
Resection of diaphragm	1	0.0%	0.0	0.0%	0.0%	0.0%
Resection of mediastinal cyst	1	0.0%	0.0	0.0%	0.0%	0.0%
Resection of ribs, extrapleural, all stages	1	0.0%	0.0	0.0%	0.0%	0.0%
Revision and/or thrombectomy of arteriovenous fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Revision of stapedectomy or stapedotomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Salpingectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Secondary revision of orbitocraniofacial reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Septal or other intranasal dermatoplasty	1	0.0%	0.0	0.0%	0.0%	0.0%
Sequestrectomy of bone in upper extremity	1	0.0%	0.0	0.0%	0.0%	0.0%
Shunt; central, with prosthetic graft	1	0.0%	0.0	0.0%	0.0%	0.0%
Spine bony resection	1	0.0%	0.0	0.0%	0.0%	0.0%
Stapes mobilization	1	0.0%	0.0	0.0%	0.0%	0.0%
Stereotactic localization, including burr hole(s), with insertion of catheter(s) or probe(s) for placement of radiation source	1	0.0%	0.0	0.0%	0.0%	0.0%
Suture of mesentery	1	0.0%	0.0	0.0%	0.0%	0.0%
Suture of tracheal wound or injury	1	0.0%	0.0	0.0%	0.0%	0.0%
Suture or repair of testicular injury	1	0.0%	0.0	0.0%	0.0%	0.0%
Sympathectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Synovectomy, foot	1	0.0%	0.0	0.0%	0.0%	0.0%
Thoracostomy, chest drainage with rib resection or flap	1	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with cardiac massage	1	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with pulmonary decortication	1	0.0%	0.0	0.04%	0.0%	0.0%
Thoracotomy, with removal of intrapleural foreign body or fibrin deposit	1	0.0%	0.0	0.0%	0.0%	0.0%
Transcatheter placement of intravascular stent - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Transurethral resection of prostate	1	0.0%	0.0	0.0%	0.0%	0.0%
Ureterolithotomy - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Ureteroplasty	1	0.0%	0.0	0.0%	0.0%	0.0%

<b>SUPPLEMENTAL TABLE 7</b> Top 10 Procedures by Share of total MMEs Among Children Aged 0–11 Years, by Payer Type				
<b>Privately insured children aged 0-11 y</b>				
<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid prescription</b>	<b>Share of dispensed opioid prescriptions in the sample</b>
Tonsillectomy and/or adenoidectomy	12 269	17.3%	22.5	33.7%
Open treatment of fracture, upper extremity	753	46.9%	37.6	5.6%
Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	670	27.9%	22.9	3.0%
Appendectomy - laparoscopic	1324	11.0%	9.8	2.3%
Orchiopexy	1174	27.9%	10.5	5.2%
Tympanoplasty	476	22.7%	18.9	1.7%
Arthroscopy of knee	106	64.2%	69.0	1.1%
Open treatment of fracture, lower extremity	147	44.2%	47.1	1.0%
Open treatment of fracture, hip or pelvis	145	47.6%	47.3	1.1%
Strabismus surgery	2156	2.7%	2.5	0.9%
<b>Publicly insured children aged 0-11 y</b>				
<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid prescription</b>	<b>Share of dispensed opioid prescriptions in the sample</b>
Tonsillectomy and/or adenoidectomy	16 104	22%	31.5	32.0%
Open treatment of fracture, upper extremity	743	56%	72.4	3.8%
Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	824	44%	47.8	3.3%
Osteotomy of lower extremity	312	67%	120.9	1.9%
Epiphyseal or hemiepiphyseal arrest, lower extremity	189	76%	134.4	1.3%
Appendectomy - laparoscopic	1574	15%	11.7	2.2%
Plastic operation of penis to correct chordee or angulation	1615	32%	11.2	4.7%
Open treatment of fracture, lower extremity	170	66%	93.0	1.0%
Orchiopexy	1571	29%	9.8	4.2%
Open treatment of fracture, hip or pelvis	176	56%	70.3	0.9%

**SUPPLEMENTAL TABLE 8** Full Results for Patients Aged 12–21 Years

Procedure	Number of procedures	Opioid dispensing rate	Mean MMEs per dispensed opioid Rx	Refill rate	Share of total MMEs	Share of surgical opioid Rx
Tonsillectomy and/or adenoidectomy	9360	57.9%	158.7	9.6%	12.7%	9.8%
Arthroscopy of knee	11 224	53.7%	131.0	3.7%	12.6%	10.8%
Cesarean section	7520	58.8%	121.0	2.3%	7.8%	8.0%
Open treatment of fracture, lower extremity	3913	55.6%	143.8	6.2%	4.8%	3.9%
Open treatment of fracture, upper extremity	4648	57.7%	120.1	2.9%	4.8%	4.8%
Rhinoplasty	4016	54.3%	116.7	1.5%	4.0%	3.9%
Arthroscopy of shoulder	3252	51.7%	141.5	3.8%	3.9%	3.0%
Cholecystectomy - laparoscopic	3853	62.9%	114.2	2.4%	3.8%	4.4%
Appendectomy - laparoscopic	6541	42.2%	65.4	0.7%	3.7%	5.0%
Ligamentous reconstruction (augmentation), knee	1724	58.7%	169.6	6.5%	2.5%	1.8%
Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	3278	45.8%	78.2	0.8%	2.2%	2.7%
Excision of pilonidal cyst or sinus	2059	56.4%	96.0	4.0%	1.7%	2.1%
Arthrodesis of spine	1215	49.7%	131.5	6.7%	1.4%	1.1%
Open treatment of clavicle fracture	1159	50.5%	135.4	2.3%	1.3%	1.1%
Laparoscopic fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method	1573	59.5%	96.8	1.8%	1.3%	1.7%
Mammaplasty, augmentation	1502	54.1%	95.3	2.2%	1.2%	1.5%
Osteotomy of lower extremity	804	61.6%	174.8	7.3%	1.2%	0.9%
Arthroscopy of hip	971	50.5%	144.0	3.3%	1.2%	0.9%
Correction of hallux rigidus	849	54.3%	133.9	6.8%	1.0%	0.8%
Excision of bone cyst or benign tumor with or without bone grafting	849	60.4%	132.0	2.1%	1.0%	0.9%
Open treatment of fracture, hip or pelvis	569	55.7%	161.9	12.1%	0.8%	0.6%
Excision of ganglion, wrist	1042	50.0%	74.9	0.7%	0.7%	0.9%
Open treatment of facial fractures	548	52.4%	140.0	2.7%	0.7%	0.5%
Laminectomy/corpectomy	502	54.2%	151.7	6.0%	0.7%	0.5%
Reconstruction of nonunion or malunion, upper extremity	454	68.3%	152.0	2.2%	0.6%	0.6%
Arthroscopy of ankle or foot	423	58.4%	151.5	5.2%	0.5%	0.4%
Epiphyseal or hemiepiphyseal arrest, lower extremity	466	68.7%	134.1	0.6%	0.5%	0.6%
Nerve decompression	600	55.5%	104.0	2.7%	0.5%	0.6%
Reconstruction of dislocating patella	454	52.6%	129.8	7.5%	0.5%	0.4%
Hysterectomy - laparoscopic or vaginal	401	63.3%	138.7	3.0%	0.5%	0.5%
Tympanoplasty	841	45.8%	65.2	1.1%	0.5%	0.7%
Repair of disrupted ligament, ankle	459	49.2%	110.2	4.4%	0.4%	0.4%
Excision of breast lesion	1088	42.6%	44.9	0.6%	0.4%	0.8%
Reconstruction of face	459	50.8%	105.0	4.1%	0.4%	0.4%
Lumpectomy or mastectomy	535	55.0%	86.9	1.7%	0.4%	0.5%
Reconstructive repair of pectus excavatum or carinatum	282	56.7%	154.2	7.1%	0.4%	0.3%
Reconstruction of foot	323	60.4%	127.7	6.5%	0.4%	0.4%
Hernia repair, inguinal/femoral - laparoscopic	404	62.9%	101.3	1.0%	0.3%	0.5%
Hernia repair, inguinal/femoral - open	428	56.1%	94.7	2.6%	0.3%	0.4%
Graft of bone or cartilage to face	627	47.2%	57.7	1.3%	0.3%	0.5%
Hand tendon repair	323	58.2%	110.5	1.9%	0.3%	0.3%
Bone resection	324	54.3%	104.5	4.0%	0.3%	0.3%
Arthrodesis of lower extremity	231	48.1%	145.4	8.7%	0.3%	0.2%
Inferior turbinate resection or excision	614	34.9%	53.2	0.3%	0.3%	0.4%
Tendon repair, upper extremity	342	49.4%	92.5	1.5%	0.3%	0.3%
Excision of facial bone or tumor/cyst in facial bone	578	54.5%	53.8	1.0%	0.3%	0.6%
Excision of soft tissue lesion	654	30.6%	44.2	0.9%	0.2%	0.4%
Tendon lengthening or shortening, lower extremity	283	60.4%	101.6	3.2%	0.2%	0.3%
Tendon repair, lower extremity	233	54.9%	122.6	5.6%	0.2%	0.2%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Hernia repair, abdominal - open	395	44.3%	71.8	0.5%	0.2%	0.3%
Reduction of torsion of testis	634	50.6%	44.5	0.3%	0.2%	0.6%
Repair or reconstruction of collateral ligament, hand and/or fingers	270	61.1%	103.9	2.2%	0.2%	0.3%
Nerve repair	222	54.5%	121.2	3.2%	0.2%	0.2%
Bone graft procedure	247	52.6%	104.4	2.4%	0.2%	0.2%
Orchiopexy	573	48.2%	44.1	0.9%	0.2%	0.5%
Skin graft	396	39.6%	63.8	5.6%	0.2%	0.3%
Repair of fistula, oronasal or oromaxillary	204	75.5%	121.5	2.0%	0.2%	0.3%
Craniectomy or craniotomy	349	39.5%	67.8	4.0%	0.2%	0.2%
Arthroplasty of hip	61	70.5%	387.7	23.0%	0.2%	0.1%
Repair of ruptured Achilles tendon	165	56.4%	142.7	1.8%	0.2%	0.2%
Ostectomy of foot and/or toes	189	54.5%	123.1	3.7%	0.2%	0.2%
Debridement of skin, muscle, or bone	357	32.8%	62.0	2.5%	0.2%	0.2%
Gastric bypass	265	41.9%	83.1	1.1%	0.2%	0.2%
Excision or curettage of bone cyst or benign tumor	145	63.4%	147.6	2.1%	0.2%	0.2%
Decompression fasciotomy of lower extremity	163	54.0%	128.3	7.4%	0.2%	0.2%
Open treatment of slipped femoral epiphysis	178	60.7%	115.1	1.7%	0.2%	0.2%
Thyroidectomy, with or without lymphadenectomy	283	44.5%	71.7	1.1%	0.2%	0.2%
Laparoscopic abdominal procedure	219	52.1%	90.9	1.4%	0.2%	0.2%
Adjacent tissue transfer or rearrangement	904	18.3%	21.3	0.6%	0.2%	0.3%
Arthrotomy of lower extremity	143	42.7%	130.1	6.3%	0.2%	0.1%
Osteochondral allograft, knee - open	122	54.1%	152.4	4.1%	0.2%	0.1%
Arthroscopy of wrist	206	55.8%	87.0	2.9%	0.2%	0.2%
Gastrocnemius recession	133	60.2%	131.9	3.8%	0.2%	0.1%
Tendon transfer, lower extremity	130	63.1%	134.2	4.6%	0.1%	0.1%
Ectopic pregnancy surgery	178	63.5%	91.9	3.9%	0.1%	0.2%
Arthroscopy of elbow	196	51.0%	82.4	0.0%	0.1%	0.2%
Strabismus surgery	1540	9.9%	10.4	0.2%	0.1%	0.3%
Suture of infrapatellar tendon	130	55.4%	117.1	5.4%	0.1%	0.1%
Elbow ligament reconstruction	155	41.9%	96.9	1.3%	0.1%	0.1%
Varicocele repair	264	51.5%	54.3	0.8%	0.1%	0.2%
Capsulorrhaphy, shoulder	128	47.7%	110.9	6.3%	0.1%	0.1%
Biopsy or excision of lymph node(s)	336	36.3%	41.6	1.8%	0.1%	0.2%
Arthrodesis of upper extremity	61	68.9%	221.4	9.8%	0.1%	0.1%
Osteotomy of upper extremity	134	61.9%	99.8	7.5%	0.1%	0.1%
Laparoscopic lysis of adhesions	84	57.1%	154.1	3.6%	0.1%	0.1%
Ovarian cystectomy	95	56.8%	133.2	1.1%	0.1%	0.1%
Open treatment of spinal fracture	80	60.0%	156.5	15.0%	0.1%	0.1%
Reconstruction of mandible or maxilla	145	53.1%	86.1	3.4%	0.1%	0.1%
Palatoplasty	118	44.1%	104.9	3.4%	0.1%	0.1%
Implantation, removal, or replacement of osseointegrated implant, temporal bone	104	57.7%	117.4	2.9%	0.1%	0.1%
Suture of quadriceps or hamstring muscle rupture	76	63.2%	156.8	7.9%	0.1%	0.1%
Excision of hydrocele	202	50.0%	58.1	1.5%	0.1%	0.2%
Vulvectomy	190	51.6%	61.3	3.2%	0.1%	0.2%
Flap reconstruction	105	49.5%	109.8	3.8%	0.1%	0.1%
Lateral retinacular release - open	60	75.0%	186.3	6.7%	0.1%	0.1%
Nephrectomy - laparoscopic	122	55.7%	86.8	4.9%	0.1%	0.1%
Fixation of contralateral testis	237	57.0%	44.6	0.0%	0.1%	0.2%
Excision of salivary tumor or salivary gland	115	49.6%	91.7	2.6%	0.1%	0.1%
Capsulorrhaphy or reconstruction, wrist	65	64.6%	160.8	4.6%	0.1%	0.1%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Sesamoidectomy, first toe	60	63.3%	174.0	6.7%	0.1%	0.1%
Hernia repair, abdominal - laparoscopic	72	56.9%	141.4	2.8%	0.1%	0.1%
Amputation of upper extremity	103	52.4%	98.0	3.9%	0.1%	0.1%
Thoracoscopy, with pleurodesis	169	40.8%	58.9	2.4%	0.1%	0.1%
Osteoplasty of upper extremity	60	75.0%	164.1	1.7%	0.1%	0.1%
Arthrotomy of upper extremity	109	46.8%	90.0	3.7%	0.1%	0.1%
Exploration of penetrating wound	183	27.3%	53.4	2.2%	0.1%	0.1%
Tenolysis, upper extremity	105	52.4%	87.9	1.9%	0.1%	0.1%
Excision of lesion of tendon sheath or joint capsule, hand or finger	182	45.1%	50.3	1.1%	0.1%	0.1%
Excision or destruction of lingual tonsil, any method (separate procedure)	51	52.9%	173.3	3.9%	0.1%	0.0%
Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator	88	42.0%	100.2	1.1%	0.1%	0.1%
Tenolysis, lower extremity	125	43.2%	69.6	2.4%	0.1%	0.1%
Excision of lesion, tendon, tendon sheath, or capsule; foot	84	51.2%	99.5	2.4%	0.1%	0.1%
Surgical treatment of anal fistula	76	47.4%	105.0	2.6%	0.1%	0.1%
Orchiectomy - open	185	56.2%	43.1	2.7%	0.1%	0.2%
Lymphadenectomy	102	53.9%	76.8	4.9%	0.1%	0.1%
Incision of tendon sheath of wrist	95	70.5%	81.3	3.2%	0.1%	0.1%
Drainage of breast abscess	84	36.9%	91.8	1.2%	0.1%	0.1%
Carpal tunnel release, endoscopic	44	70.5%	175.2	2.3%	0.1%	0.1%
Intestinal procedure, resection and anastomosis - open	88	36.4%	81.4	3.4%	0.1%	0.1%
Tenotomy, lower extremity	106	39.6%	66.0	1.9%	0.1%	0.1%
Plastic operation of penis to correct chordee or angulation	135	54.1%	51.7	1.5%	0.1%	0.1%
Cochlear device implantation	93	57.0%	70.5	2.2%	0.1%	0.1%
Laparoscopic intestinal procedure	60	36.7%	107.1	0.0%	0.1%	0.0%
Tendon transfer, upper extremity	54	70.4%	118.4	1.9%	0.1%	0.1%
CSF shunt	208	24.5%	30.2	1.4%	0.1%	0.1%
Reconstruction of nonunion or malunion, lower extremity	57	52.6%	110.2	8.8%	0.1%	0.1%
Osteotomy of pelvis	53	54.7%	117.4	7.5%	0.1%	0.1%
Capsulectomy or capsulotomy, hand	38	71.1%	160.8	2.6%	0.1%	0.0%
Radical resection of tumor, soft tissue	71	36.6%	84.0	2.8%	0.1%	0.0%
Application of external fixation system	60	46.7%	99.2	8.3%	0.1%	0.1%
Colectomy and/or proctectomy - laparoscopic	129	34.9%	46.0	0.8%	0.1%	0.1%
Osteoplasty of lower extremity	72	54.2%	80.7	11.1%	0.0%	0.1%
Salpingo-oophorectomy	50	58.0%	114.9	4.0%	0.0%	0.1%
Amputation of lower extremity	62	51.6%	88.6	9.7%	0.0%	0.1%
Intestinal procedure, resection and closure of enterostomy	67	43.3%	80.6	4.5%	0.0%	0.1%
Laparoscopic liver procedure	31	48.4%	168.0	3.2%	0.0%	0.0%
Exploratory laparotomy	44	29.5%	117.3	6.8%	0.0%	0.0%
Reinsertion of spinal fixation device	54	57.4%	94.9	5.6%	0.0%	0.1%
Implantable cardiac device procedures	142	40.8%	35.3	0.7%	0.0%	0.1%
Lipectomy, with or without excessive skin removal	70	50.0%	68.8	5.7%	0.0%	0.1%
Secondary closure of surgical wound or dehiscence	64	32.8%	73.6	6.3%	0.0%	0.0%
Genioplasty	59	49.2%	79.6	6.8%	0.0%	0.1%
Repair of nonunion or malunion, foot bones	53	60.4%	88.5	3.8%	0.0%	0.1%
Osteotomy of clavicle	18	77.8%	257.2	0.0%	0.0%	0.0%
Nasal septum reconstruction	46	60.9%	99.7	4.3%	0.0%	0.1%
Excision of thyroglossal duct cyst or sinus	59	50.8%	76.3	1.7%	0.0%	0.1%
Fasciectomy or fasciotomy	67	55.2%	66.8	1.5%	0.0%	0.1%
Excision or destruction - intra-abdominal tumors, cysts or endometriomas	39	64.1%	114.6	7.7%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Colectomy and/or proctectomy - open	89	37.1%	49.8	4.5%	0.0%	0.1%
Hypospadias repair	57	52.6%	76.0	0.0%	0.0%	0.1%
Thoracotomy, with control of traumatic hemorrhage and/or repair of lung tear	14	42.9%	304.1	7.1%	0.0%	0.0%
Insertion or replacement of cranial neurostimulator pulse generator or receiver	102	35.3%	40.9	1.0%	0.0%	0.1%
Lengthening of hamstring tendon	50	58.0%	83.3	6.0%	0.0%	0.1%
Removal of instrumentation in spine	41	51.2%	101.2	4.9%	0.0%	0.0%
Gender affirming procedure, male to female	11	27.3%	369.1	9.1%	0.0%	0.0%
Reconstruction of toe	27	48.1%	149.2	0.0%	0.0%	0.0%
Excision of extraparenchymal lesion of testis	116	43.1%	34.5	1.7%	0.0%	0.1%
Laparoscopic repair of paraesophageal hernia	42	42.9%	93.4	4.8%	0.0%	0.0%
Appendectomy - open	120	31.7%	32.3	0.0%	0.0%	0.1%
Laryngoscopy, with tumor excision, with or without reconstruction	146	20.5%	26.4	1.4%	0.0%	0.1%
Closure of enterostomy	41	41.5%	91.3	2.4%	0.0%	0.0%
Arthroplasty of temporomandibular joint	28	60.7%	131.4	3.6%	0.0%	0.0%
Excision of urachal cyst or sinus	15	40.0%	243.0	0.0%	0.0%	0.0%
Acetabuloplasty	15	80.0%	241.0	20.0%	0.0%	0.0%
Excision of neuroma, neurofibroma, or neurolemmoma	62	41.9%	57.8	0.0%	0.0%	0.0%
Arthroplasty of knee	21	57.1%	166.1	14.3%	0.0%	0.0%
Cranioplasty	69	42.0%	50.1	0.0%	0.0%	0.1%
Laparoscopic esophagus fundoplasty	44	29.5%	77.2	0.0%	0.0%	0.0%
Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle	36	55.6%	94.2	2.8%	0.0%	0.0%
Synovectomy, hand	39	66.7%	86.5	5.1%	0.0%	0.0%
Reconstruction of external auditory canal	36	47.2%	91.3	2.8%	0.0%	0.0%
Embolectomy or thrombectomy	11	81.8%	294.1	27.3%	0.0%	0.0%
Sphincteroplasty, anal	29	55.2%	111.3	3.4%	0.0%	0.0%
Orbitotomy	56	23.2%	56.3	0.0%	0.0%	0.0%
Excision of branchial cleft cyst, vestige, or fistula	95	30.5%	32.2	1.1%	0.0%	0.1%
Splenectomy - laparoscopic	25	64.0%	121.6	0.0%	0.0%	0.0%
Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release	19	68.4%	159.9	0.0%	0.0%	0.0%
Aortic valve repair/replacement - open	25	44.0%	120.3	4.0%	0.0%	0.0%
Dacryocystorhinostomy	16	31.3%	187.2	0.0%	0.0%	0.0%
Transcatheter placement of intravascular stent - percutaneous or open	115	11.3%	26.0	0.0%	0.0%	0.0%
Arteriovenous fistula creation or reconstruction	37	64.9%	80.3	0.0%	0.0%	0.0%
Repair of primary, torn ligament and/or capsule, knee	21	33.3%	138.2	4.8%	0.0%	0.0%
Glossectomy	10	60.0%	283.5	0.0%	0.0%	0.0%
Suture or repair of testicular injury	28	46.4%	100.7	0.0%	0.0%	0.0%
Quadriicepsplasty (eg, Bennett or Thompson type)	23	91.3%	122.1	8.7%	0.0%	0.0%
Arthroplasty of forearm or hand	24	54.2%	113.8	0.0%	0.0%	0.0%
Enucleation of eye	9	55.6%	303.3	0.0%	0.0%	0.0%
Exploration of artery without surgical repair	27	55.6%	100.5	7.4%	0.0%	0.0%
Carpectomy	24	41.7%	110.6	0.0%	0.0%	0.0%
Graft of fat or other tissue	101	32.7%	26.0	0.0%	0.0%	0.1%
Biceps tenodesis or reconstruction	19	36.8%	134.7	5.3%	0.0%	0.0%
Mastopexy	15	80.0%	170.6	6.7%	0.0%	0.0%
Removal of implant; superficial (eg, buried wire, pin or rod)	525	5.5%	4.8	0.2%	0.0%	0.1%
Cerclage of cervix, during pregnancy	98	7.1%	25.7	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Pulmonary valve repair/replacement - open	27	44.4%	90.8	3.7%	0.0%	0.0%
Rib excision	41	48.8%	58.2	2.4%	0.0%	0.0%
Exploration of spinal fusion	26	38.5%	90.8	0.0%	0.0%	0.0%
Tendon lengthening or shortening, upper extremity	35	51.4%	66.5	2.9%	0.0%	0.0%
Hysterectomy - open abdominal	12	50.0%	192.7	0.0%	0.0%	0.0%
Fissurectomy	30	60.0%	75.8	6.7%	0.0%	0.0%
Thymectomy, with or without lymphadenectomy	5	40.0%	454.5	0.0%	0.0%	0.0%
Ligation of blood vessels	30	43.3%	75.7	6.7%	0.0%	0.0%
Repair of blepharoptosis	166	19.3%	13.6	0.0%	0.0%	0.1%
Repair of retinal detachment	198	14.6%	11.3	0.0%	0.0%	0.1%
Urethroplasty	42	52.4%	53.3	2.4%	0.0%	0.0%
Fracture of nasal inferior turbinate(s)	90	21.1%	24.7	0.0%	0.0%	0.0%
Repair of encephalocele, skull vault, including cranioplasty	2	100.0%	1100.0	0.0%	0.0%	0.0%
Salpingectomy	19	52.6%	114.2	0.0%	0.0%	0.0%
Incision and drainage, thigh or knee region	51	29.4%	42.3	0.0%	0.0%	0.0%
Laryngectomy, pharyngectomy, pharyngolaryngectomy	3	66.7%	717.0	0.0%	0.0%	0.0%
Repair of dural/cerebrospinal fluid leak, not requiring laminectomy	6	66.7%	354.8	0.0%	0.0%	0.0%
Patellectomy or hemipatellectomy	38	50.0%	56.0	0.0%	0.0%	0.0%
Synovectomy, foot	10	50.0%	210.0	10.0%	0.0%	0.0%
Revision and/or thrombectomy of arteriovenous fistula	9	66.7%	233.3	11.1%	0.0%	0.0%
Colpoperineorrhaphy	5	20.0%	410.0	0.0%	0.0%	0.0%
Tubercleplasty of anterior tibia	22	40.9%	91.1	9.1%	0.0%	0.0%
Oophrectomy	26	50.0%	77.0	0.0%	0.0%	0.0%
Repair of tunica vaginalis hydrocele	25	52.0%	79.3	0.0%	0.0%	0.0%
Umbilectomy, omphalectomy, excision of umbilicus	25	56.0%	78.2	0.0%	0.0%	0.0%
Excision of trochanteric bursa or calcification	12	75.0%	162.9	0.0%	0.0%	0.0%
Mastoidectomy	28	28.6%	69.1	0.0%	0.0%	0.0%
Insertion of testicular prosthesis	35	54.3%	54.9	0.0%	0.0%	0.0%
Decompression fasciotomy of upper extremity	25	52.0%	75.5	12.0%	0.0%	0.0%
Tarsal tunnel release	15	73.3%	124.0	6.7%	0.0%	0.0%
Intestinal procedure, ileostomy or jejunostomy	16	31.3%	116.2	0.0%	0.0%	0.0%
Resection of ribs, extrapleural, all stages	16	56.3%	114.4	25.0%	0.0%	0.0%
Excision of tendon of hand or finger	15	73.3%	120.8	13.3%	0.0%	0.0%
Excision of lesion of meniscus or capsule, knee	24	62.5%	75.4	0.0%	0.0%	0.0%
Tricuspid or Mitral valve repair/reconstruction - open	21	71.4%	85.6	0.0%	0.0%	0.0%
Epiphyseal arrest by epiphysodesis or stapling; distal radius and/or ulna	28	57.1%	63.5	0.0%	0.0%	0.0%
Excision of vaginal cyst or tumor	38	47.4%	45.1	7.9%	0.0%	0.0%
Tissue expander placement, excluding breast	16	68.8%	106.3	0.0%	0.0%	0.0%
Alveoloplasty	29	55.2%	58.0	0.0%	0.0%	0.0%
Diaphragmatic repair	21	52.4%	78.3	4.8%	0.0%	0.0%
Laparoscopic hernia repair	4	75.0%	408.8	0.0%	0.0%	0.0%
Laparoscopic fulguration of oviducts (with or without transection)	22	63.6%	74.1	4.5%	0.0%	0.0%
Enterolysis - open	30	23.3%	54.2	10.0%	0.0%	0.0%
Thoracoscopy, with partial or complete lung removal	39	28.2%	41.5	0.0%	0.0%	0.0%
Intracranial arteriovenous malformation repair	25	36.0%	64.4	4.0%	0.0%	0.0%
Incision of bone cortex, pelvis and lower extremity	30	20.0%	52.5	6.7%	0.0%	0.0%
Tympanostomy	1173	1.8%	1.3	0.0%	0.0%	0.0%
Enterolysis - laparoscopic	45	28.9%	34.5	0.0%	0.0%	0.0%
Repair of syndactyly	17	64.7%	91.0	0.0%	0.0%	0.0%
Cholecystectomy - open	17	41.2%	90.7	11.8%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Incision and drainage of rectal, perirectal, or perianal abscess	21	47.6%	72.5	4.8%	0.0%	0.0%
Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth	31	35.5%	48.7	0.0%	0.0%	0.0%
Nephrectomy - open	14	50.0%	107.5	0.0%	0.0%	0.0%
Excision of lesion of mesentery	2	50.0%	750.0	0.0%	0.0%	0.0%
Exenteration of orbit	1	100.0%	1500.0	0.0%	0.0%	0.0%
Resection of mediastinal tumor	7	71.4%	212.1	14.3%	0.0%	0.0%
Perineoplasty, repair of perineum, nonobstetrical	14	42.9%	104.5	0.0%	0.0%	0.0%
Incision and drainage, leg or ankle	29	31.0%	49.8	3.4%	0.0%	0.0%
Claviclectomy	14	35.7%	101.8	0.0%	0.0%	0.0%
Trigger finger release	50	34.0%	27.7	0.0%	0.0%	0.0%
Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis	7	42.9%	197.1	0.0%	0.0%	0.0%
Repair of atrial and/or ventricular septal defects	23	34.8%	59.6	8.7%	0.0%	0.0%
Autologous chondrocyte implantation, knee	23	30.4%	57.7	0.0%	0.0%	0.0%
Excision of radial head	13	53.8%	102.1	0.0%	0.0%	0.0%
Excision of frenum, labial or buccal	101	18.8%	13.1	0.0%	0.0%	0.0%
Cataract removal	160	3.1%	8.2	0.0%	0.0%	0.0%
Division of scalenus anticus	11	45.5%	117.7	0.0%	0.0%	0.0%
Radical resection of tumor, bone	7	71.4%	184.8	0.0%	0.0%	0.0%
Excision of lesion of mucosa and submucosa, vestibule of mouth	61	19.7%	20.8	0.0%	0.0%	0.0%
Conjunctival flap	33	30.3%	38.0	0.0%	0.0%	0.0%
Augmentation of mandibular body or angle	3	100.0%	413.3	33.3%	0.0%	0.0%
Thoracoscopy, with pulmonary decortication	18	27.8%	66.9	0.0%	0.0%	0.0%
Muscle repair, hand	5	40.0%	238.0	0.0%	0.0%	0.0%
Splenectomy - open	22	50.0%	53.8	13.6%	0.0%	0.0%
Removal of synthetic rod and insertion of tendon graft in hand or finger	9	66.7%	130.0	0.0%	0.0%	0.0%
Repair of blood vessel	27	37.0%	42.2	7.4%	0.0%	0.0%
Removal of foreign body, shoulder	6	66.7%	190.0	33.3%	0.0%	0.0%
Excision of spermatocele, with or without epididymectomy	27	44.4%	41.9	3.7%	0.0%	0.0%
Excision of Bartholin's gland or cyst	24	50.0%	47.2	0.0%	0.0%	0.0%
Laparoscopic ovarian procedure	15	13.3%	75.0	0.0%	0.0%	0.0%
Breast reconstruction	16	62.5%	70.2	0.0%	0.0%	0.0%
Frenoplasty	61	19.7%	18.3	0.0%	0.0%	0.0%
Laparoscopic stomach procedure	18	27.8%	60.0	0.0%	0.0%	0.0%
Stapedectomy or stapedotomy	20	45.0%	53.5	0.0%	0.0%	0.0%
Repair of ruptured musculotendinous cuff - open	6	66.7%	177.5	0.0%	0.0%	0.0%
Resection of bone tumor	7	85.7%	151.8	0.0%	0.0%	0.0%
Radical excision of bursa, synovia of wrist, or forearm	9	77.8%	116.1	0.0%	0.0%	0.0%
Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury	24	37.5%	43.1	4.2%	0.0%	0.0%
Ureteroneocystostomy	22	68.2%	46.5	4.5%	0.0%	0.0%
Parathyroidectomy	36	38.9%	27.4	0.0%	0.0%	0.0%
Spine bony resection	9	77.8%	108.9	0.0%	0.0%	0.0%
Division of sternocleidomastoid	4	50.0%	243.8	0.0%	0.0%	0.0%
Capsulotomy, foot and/or toes	23	39.1%	42.1	8.7%	0.0%	0.0%
Open treatment of rib fracture	11	45.5%	86.6	9.1%	0.0%	0.0%
Exploration, retroperitoneal area with or without biopsy(s)	11	54.5%	86.4	9.1%	0.0%	0.0%
Uvulectomy, excision of uvula	21	33.3%	45.0	9.5%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Excision of vaginal septum	69	23.2%	13.5	0.0%	0.0%	0.0%
Thoracoscopy, with sympathectomy	17	47.1%	54.9	0.0%	0.0%	0.0%
Cystotomy or cystostomy	15	33.3%	62.1	0.0%	0.0%	0.0%
Revision of urinary-cutaneous anastomosis	15	13.3%	61.0	0.0%	0.0%	0.0%
Arthroplasty of spine	5	80.0%	183.0	40.0%	0.0%	0.0%
Laparoscopic occlusion of oviducts by device (eg, band, clip, or Falope ring)	16	56.3%	56.3	0.0%	0.0%	0.0%
Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity	15	53.3%	59.8	0.0%	0.0%	0.0%
Lung resection	13	46.2%	68.8	7.7%	0.0%	0.0%
Pancreatectomy	12	50.0%	74.4	16.7%	0.0%	0.0%
Thoracotomy, with exploration	10	60.0%	88.5	10.0%	0.0%	0.0%
Thoracoscopy, excision of pericardial or mediastinal mass	17	29.4%	51.6	5.9%	0.0%	0.0%
Osteotomy of facial bones	15	53.3%	58.3	6.7%	0.0%	0.0%
Palatopharyngoplasty	15	40.0%	57.4	6.7%	0.0%	0.0%
Revision of reconstructed breast	13	61.5%	65.7	0.0%	0.0%	0.0%
Transfer of tendon of fingers	6	100.0%	140.0	16.7%	0.0%	0.0%
Cartilage graft	14	50.0%	59.4	0.0%	0.0%	0.0%
Replacement of tissue expander with permanent prosthesis	8	62.5%	103.1	0.0%	0.0%	0.0%
Keratoplasty	48	27.1%	16.5	4.2%	0.0%	0.0%
Excision of lip	42	26.2%	18.7	0.0%	0.0%	0.0%
Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity	12	75.0%	64.0	0.0%	0.0%	0.0%
Laryngoplasty	13	84.6%	58.7	7.7%	0.0%	0.0%
Scapulopexy	3	100.0%	253.3	0.0%	0.0%	0.0%
Destruction of lesion(s), anus	16	50.0%	47.0	6.3%	0.0%	0.0%
Infratemporal pre-auricular approach to middle cranial fossa	6	100.0%	125.3	0.0%	0.0%	0.0%
Colostomy - open	9	11.1%	83.3	0.0%	0.0%	0.0%
Excision of lacrimal gland or lacrimal gland tumor	2	50.0%	375.0	0.0%	0.0%	0.0%
Trachelectomy, with or without lymph node dissection	1	100.0%	750.0	0.0%	0.0%	0.0%
Nerve transection	14	57.1%	53.4	0.0%	0.0%	0.0%
Urethrotomy	99	15.2%	7.5	0.0%	0.0%	0.0%
Cleft lip repair	36	30.6%	20.3	0.0%	0.0%	0.0%
Temporary closure of eyelids by suture	17	29.4%	42.5	0.0%	0.0%	0.0%
Arterial transposition	6	50.0%	120.0	16.7%	0.0%	0.0%
Resection or excision of neoplastic, vascular or infectious lesion, intracranial	19	42.1%	37.5	0.0%	0.0%	0.0%
Laparoscopic appendix procedure	9	11.1%	77.8	0.0%	0.0%	0.0%
Repair of complex cardiac anomalies	25	36.0%	27.9	8.0%	0.0%	0.0%
Excision of lesion or tumor, dentoalveolar structures	16	56.3%	42.9	6.3%	0.0%	0.0%
Neuroendoscopy, intracranial	28	25.0%	24.4	0.0%	0.0%	0.0%
Exclusion or fulguration of urethra	17	35.3%	39.7	5.9%	0.0%	0.0%
Coronoidectomy	4	50.0%	168.8	0.0%	0.0%	0.0%
Repair of atrioventricular canal	3	66.7%	225.0	33.3%	0.0%	0.0%
Laparoscopic gastrostomy, without construction of gastric tube	78	17.9%	8.6	2.6%	0.0%	0.0%
Ligation or transection of fallopian tube(s)	10	50.0%	66.8	0.0%	0.0%	0.0%
Plastic repair of introitus	12	41.7%	55.2	8.3%	0.0%	0.0%
Laparotomy	7	57.1%	92.1	14.3%	0.0%	0.0%
Excision of urethral diverticulum	10	60.0%	63.5	10.0%	0.0%	0.0%
Coccygectomy, primary	11	45.5%	55.9	9.1%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Injection of medication or other substance into Tenon's capsule	54	1.9%	11.1	0.0%	0.0%	0.0%
Surgical closure tracheostomy or fistula, with or without plastic repair	11	9.1%	54.5	0.0%	0.0%	0.0%
Excision of local lesion of epididymis	30	40.0%	19.8	0.0%	0.0%	0.0%
Implantation, replacement, revision, removal of gastric neurostimulator electrodes - laparoscopic	4	100.0%	146.3	0.0%	0.0%	0.0%
Excision of external ear	3	66.7%	195.0	0.0%	0.0%	0.0%
Division of aberrant vessel (vascular ring)	7	71.4%	81.4	0.0%	0.0%	0.0%
Excision of epiphyseal bar	7	100.0%	80.7	0.0%	0.0%	0.0%
Resection of palate or extensive resection of lesion	5	80.0%	111.0	20.0%	0.0%	0.0%
Liver transplantation	4	50.0%	138.8	0.0%	0.0%	0.0%
Repair of anomalous coronary artery from pulmonary artery origin	14	71.4%	39.5	0.0%	0.0%	0.0%
Thoracoscopy, with thymectomy	11	54.5%	50.0	9.1%	0.0%	0.0%
Cutaneous appendico-vesicostomy	20	45.0%	27.3	0.0%	0.0%	0.0%
Burr hole(s) or trephine	23	8.7%	23.5	0.0%	0.0%	0.0%
Sympathectomy	4	50.0%	135.0	0.0%	0.0%	0.0%
Intestinal procedure, resection and anastomosis - laparoscopic	17	35.3%	31.5	0.0%	0.0%	0.0%
Reconstruction of wrist	8	75.0%	66.3	12.5%	0.0%	0.0%
Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium	19	36.8%	27.3	0.0%	0.0%	0.0%
Aneurysm/pseudoaneurysm repair	3	100.0%	171.0	0.0%	0.0%	0.0%
Pharyngoplasty	12	50.0%	42.6	0.0%	0.0%	0.0%
Medianstomy	5	40.0%	101.7	20.0%	0.0%	0.0%
Removal of ankle implant	7	57.1%	71.4	0.0%	0.0%	0.0%
Urethrectomy, total, including cystostomy	1	100.0%	500.0	0.0%	0.0%	0.0%
Ventriculocisternostomy, third ventricle	23	21.7%	21.5	0.0%	0.0%	0.0%
Breast implant	14	35.7%	35.2	0.0%	0.0%	0.0%
Resection of metatarsal or toe	11	27.3%	44.1	0.0%	0.0%	0.0%
Endovascular revascularization, lower extremity	11	27.3%	43.6	0.0%	0.0%	0.0%
Excision of chest wall tumor, including ribs	7	42.9%	67.9	0.0%	0.0%	0.0%
Reconstruction of hand interphalangeal joint	5	100.0%	95.0	0.0%	0.0%	0.0%
Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion	26	11.5%	18.1	3.8%	0.0%	0.0%
Intestinal procedure, repair	15	20.0%	30.5	0.0%	0.0%	0.0%
Extensor tendon centralization, hand	10	60.0%	45.8	0.0%	0.0%	0.0%
Transplantation of kidneys	22	18.2%	20.5	0.0%	0.0%	0.0%
Tenotomy, upper extremity	12	41.7%	37.1	8.3%	0.0%	0.0%
Stapes mobilization	6	83.3%	73.8	0.0%	0.0%	0.0%
Repair of fascial defect of leg	5	60.0%	88.0	0.0%	0.0%	0.0%
Colporrhaphy	35	20.0%	12.4	0.0%	0.0%	0.0%
Removal of peritoneal foreign body from peritoneal cavity	5	60.0%	87.0	20.0%	0.0%	0.0%
Excision of presacral or sacrococcygeal tumor	3	100.0%	145.0	33.3%	0.0%	0.0%
Reconstruction of fingertip	26	19.2%	16.6	0.0%	0.0%	0.0%
Closure of the lacrimal punctum	235	1.3%	1.8	0.4%	0.0%	0.0%
Lengthening of palate	9	44.4%	47.7	0.0%	0.0%	0.0%
Adrenalectomy - laparoscopic	13	30.8%	31.7	0.0%	0.0%	0.0%
Drainage of ovarian cyst(s), abdominal approach	7	57.1%	58.9	0.0%	0.0%	0.0%
Excision of prepatellar bursa	15	33.3%	26.7	0.0%	0.0%	0.0%
Ureteroureterostomy	3	66.7%	133.3	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Excision of rectal tumor, transanal, transsacral, transcoccygeal	10	50.0%	39.8	10.0%	0.0%	0.0%
Cystolithotomy, cystotomy with removal of calculus	11	63.6%	35.5	0.0%	0.0%	0.0%
Drainage of peritoneal abscess - open	7	57.1%	55.4	0.0%	0.0%	0.0%
Orchiectomy - laparoscopic	13	38.5%	29.4	0.0%	0.0%	0.0%
Cystorrhaphy, suture of bladder wound, injury or rupture	10	30.0%	36.5	0.0%	0.0%	0.0%
Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone	7	71.4%	51.8	0.0%	0.0%	0.0%
Debridement of sternum	2	100.0%	180.0	50.0%	0.0%	0.0%
Sinusotomy, with or without reconstruction	7	42.9%	50.4	0.0%	0.0%	0.0%
Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis	12	33.3%	28.1	0.0%	0.0%	0.0%
Tenodesis, hand	4	75.0%	83.8	25.0%	0.0%	0.0%
Plastic repair of salivary duct, sialodochoplasty	7	42.9%	47.8	0.0%	0.0%	0.0%
Vestibuloplasty	4	50.0%	82.5	0.0%	0.0%	0.0%
Scrotoplasty	8	50.0%	39.7	0.0%	0.0%	0.0%
Laparoscopic salpingostomy	3	100.0%	105.8	33.3%	0.0%	0.0%
Twist drill hole for subdural, intracerebral, or ventricular puncture	16	18.8%	19.7	0.0%	0.0%	0.0%
Creation of pericardial window	7	28.6%	45.0	0.0%	0.0%	0.0%
Maxillectomy	5	60.0%	63.0	0.0%	0.0%	0.0%
Proctopexy - laparoscopic	5	60.0%	63.0	20.0%	0.0%	0.0%
Repair of cor triatriatum or supra-atrial mitral ring by resection of left atrial membrane	3	66.7%	105.0	0.0%	0.0%	0.0%
Stereotactic implantation of depth electrodes into the cerebrum for long-term seizure monitoring	21	23.8%	14.9	0.0%	0.0%	0.0%
Excision or transposition of pterygium	12	33.3%	25.8	0.0%	0.0%	0.0%
Sialolithotomy	13	46.2%	23.6	0.0%	0.0%	0.0%
Excision of tendon, hand	8	62.5%	36.3	0.0%	0.0%	0.0%
Aortic reconstruction/repair	11	27.3%	25.2	0.0%	0.0%	0.0%
Laparoscopic spleen procedure	6	33.3%	46.3	0.0%	0.0%	0.0%
Arterial bypass	12	33.3%	22.9	0.0%	0.0%	0.0%
Division of plantar fascia and muscle	3	66.7%	91.7	0.0%	0.0%	0.0%
Repair of choanal atresia	3	66.7%	91.7	0.0%	0.0%	0.0%
Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling	10	50.0%	27.3	0.0%	0.0%	0.0%
Excision of lesion of spermatic cord	10	40.0%	26.6	0.0%	0.0%	0.0%
Neurostimulator procedures	11	27.3%	24.0	0.0%	0.0%	0.0%
Fetal procedure	8	37.5%	32.8	0.0%	0.0%	0.0%
Plastic operation of penis for injury	5	60.0%	52.5	20.0%	0.0%	0.0%
Excision of lesion of tongue	3	100.0%	86.7	33.3%	0.0%	0.0%
Application of halo, including removal	7	28.6%	36.4	0.0%	0.0%	0.0%
Vaginectomy	6	50.0%	42.5	0.0%	0.0%	0.0%
Intestinal procedure, resection and enterostomy	2	100.0%	127.5	0.0%	0.0%	0.0%
Control of nasopharyngeal or oropharyngeal hemorrhage	4	50.0%	61.9	25.0%	0.0%	0.0%
Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury	4	50.0%	60.0	0.0%	0.0%	0.0%
Excision of pelvic pressure ulcer	6	33.3%	39.2	16.7%	0.0%	0.0%
Pyeloplasty	6	33.3%	37.5	0.0%	0.0%	0.0%
Capsulectomy or capsulotomy, hip	5	20.0%	45.0	0.0%	0.0%	0.0%
Reconstruction of congenital hand polydactyly	5	40.0%	45.0	20.0%	0.0%	0.0%
Hypophysectomy or excision of pituitary tumor	2	100.0%	112.5	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Reconstruction of vena cava, any method	2	50.0%	112.5	0.0%	0.0%	0.0%
Tracheoplasty	1	100.0%	225.0	0.0%	0.0%	0.0%
Vitrectomy	79	6.3%	2.8	0.0%	0.0%	0.0%
Excision and repair of eyelid	36	13.9%	6.1	0.0%	0.0%	0.0%
Liver resection	7	42.9%	31.1	0.0%	0.0%	0.0%
Omentectomy, epiploectomy, resection of omentum	5	40.0%	42.0	0.0%	0.0%	0.0%
Excision of exostosis(es), external auditory canal	12	33.3%	17.1	0.0%	0.0%	0.0%
Repair of entropion	32	15.6%	6.4	0.0%	0.0%	0.0%
Excision of synovial cyst of popliteal space	4	25.0%	50.0	0.0%	0.0%	0.0%
Acromioplasty or acromionectomy	2	50.0%	100.0	50.0%	0.0%	0.0%
Tracheostomy	15	6.7%	13.0	0.0%	0.0%	0.0%
Exploration for postoperative hemorrhage, thrombosis or infection	9	22.2%	21.7	0.0%	0.0%	0.0%
Osteotomy of spine	3	33.3%	65.0	0.0%	0.0%	0.0%
Excision of carotid body tumor	2	100.0%	97.5	0.0%	0.0%	0.0%
Canthoplasty	8	37.5%	23.8	0.0%	0.0%	0.0%
Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity	2	50.0%	93.8	0.0%	0.0%	0.0%
Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy	6	50.0%	30.8	0.0%	0.0%	0.0%
Ligation or banding of angioaccess arteriovenous fistula	5	40.0%	36.0	0.0%	0.0%	0.0%
Suture of mesentery	2	100.0%	90.0	0.0%	0.0%	0.0%
Thoracoscopy, with pleurectomy	16	18.8%	11.1	0.0%	0.0%	0.0%
Aqueous shunt to extraocular equatorial plate reservoir	56	10.7%	3.1	0.0%	0.0%	0.0%
Colostomy - laparoscopic	15	20.0%	11.7	0.0%	0.0%	0.0%
Hysterorrhaphy of ruptured uterus	4	75.0%	43.1	0.0%	0.0%	0.0%
Laparoscopic testicular procedure	2	100.0%	82.5	0.0%	0.0%	0.0%
Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator	7	14.3%	21.4	0.0%	0.0%	0.0%
Venous bypass, abdominal - open	7	14.3%	21.4	0.0%	0.0%	0.0%
Exploration, repair, and presacral drainage for rectal injury	5	20.0%	30.0	0.0%	0.0%	0.0%
Pterygomaxillary fossa surgery	5	20.0%	30.0	0.0%	0.0%	0.0%
Excision of cyst or adenoma of thyroid, or transection of isthmus	4	50.0%	37.5	0.0%	0.0%	0.0%
Lysis of adhesions (salpingolysis, ovariolysis)	3	66.7%	50.0	0.0%	0.0%	0.0%
TIPS	3	33.3%	50.0	0.0%	0.0%	0.0%
Excision tracheal stenosis and anastomosis	2	50.0%	75.0	0.0%	0.0%	0.0%
Repair of paraesophageal hiatal hernia (including fundoplication)	2	50.0%	75.0	0.0%	0.0%	0.0%
Removal of prosthesis, shoulder	1	100.0%	150.0	100.0%	0.0%	0.0%
Laparoscopic bladder procedure	5	60.0%	28.5	0.0%	0.0%	0.0%
Sequestrectomy of shoulder	1	100.0%	140.0	0.0%	0.0%	0.0%
Ciliary body destruction	37	13.5%	3.7	0.0%	0.0%	0.0%
Closure of intestinal fistula	11	18.2%	12.5	0.0%	0.0%	0.0%
Bypass graft	4	50.0%	34.4	25.0%	0.0%	0.0%
Removal of tissue expander(s) without insertion of prosthesis	5	20.0%	27.0	0.0%	0.0%	0.0%
Closure of gastrocolic fistula	2	50.0%	67.5	0.0%	0.0%	0.0%
Splenorrhaphy	2	50.0%	67.5	0.0%	0.0%	0.0%
Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa	2	50.0%	67.5	0.0%	0.0%	0.0%
Plastic repair of canaliculi	17	11.8%	7.5	0.0%	0.0%	0.0%
Incision and drainage, pelvis or hip joint area	9	33.3%	14.2	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Repair of eye laceration	26	7.7%	4.6	0.0%	0.0%	0.0%
Excision of rectal procidentia	3	33.3%	40.0	0.0%	0.0%	0.0%
Nephrostomy and/or nephrotomy	1	100.0%	120.0	0.0%	0.0%	0.0%
Follicle puncture for oocyte retrieval	16	18.8%	7.3	6.3%	0.0%	0.0%
Repair of isolated partial anomalous pulmonary venous return (eg, Scimitar Syndrome)	3	33.3%	37.5	0.0%	0.0%	0.0%
Suture of esophageal wound or injury	3	33.3%	37.5	0.0%	0.0%	0.0%
Liver debridement	2	50.0%	56.3	0.0%	0.0%	0.0%
Uterine suspension	1	100.0%	112.5	0.0%	0.0%	0.0%
Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters	701	0.6%	0.2	0.0%	0.0%	0.0%
Gastrojejunostomy	3	66.7%	35.0	33.3%	0.0%	0.0%
Direct or patch closure, sinus venosus, with or without anomalous pulmonary venous drainage	4	25.0%	25.0	0.0%	0.0%	0.0%
Insertion of orbital implant	4	25.0%	25.0	25.0%	0.0%	0.0%
Transfer of adductor to ischium	3	33.3%	33.3	0.0%	0.0%	0.0%
Nipple exploration or reconstruction	6	33.3%	15.1	0.0%	0.0%	0.0%
Gender affirming procedure, vaginoplasty	6	16.7%	15.0	0.0%	0.0%	0.0%
Placement of enterostomy or cecostomy, tube open	5	20.0%	18.0	0.0%	0.0%	0.0%
Enterotomy	4	25.0%	22.5	0.0%	0.0%	0.0%
Facial nerve reconstruction or repair	2	50.0%	45.0	0.0%	0.0%	0.0%
Centralization of wrist on ulna	1	100.0%	90.0	0.0%	0.0%	0.0%
Penile prostheses	1	100.0%	90.0	0.0%	0.0%	0.0%
Incision for implantation of neurostimulator electrode array	5	40.0%	16.5	20.0%	0.0%	0.0%
Corpora cavernosa shunts fore priapism	4	50.0%	20.6	0.0%	0.0%	0.0%
Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization	1	100.0%	81.0	0.0%	0.0%	0.0%
Resection of recurrent ovarian, tubal, primary peritoneal, uterine malignancy	1	100.0%	80.0	0.0%	0.0%	0.0%
Laparoscopic enterotomy closure	5	40.0%	15.5	0.0%	0.0%	0.0%
Incision of bone cortex, shoulder and upper extremity	13	15.4%	5.9	0.0%	0.0%	0.0%
Percutaneous coronary procedures	139	0.7%	0.5	0.0%	0.0%	0.0%
Mohs micrographic technique	32	6.3%	2.3	0.0%	0.0%	0.0%
Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy	7	14.3%	10.7	0.0%	0.0%	0.0%
Ocular surface reconstruction	7	14.3%	10.7	0.0%	0.0%	0.0%
Closure of ureterocutaneous fistula	5	40.0%	15.0	0.0%	0.0%	0.0%
Osteoplasty of facial bones	4	25.0%	18.8	0.0%	0.0%	0.0%
Epiphyseal arrest by epiphysodesis or stapling, greater trochanter of femur	2	50.0%	37.5	0.0%	0.0%	0.0%
Evisceration of ocular contents	2	100.0%	37.5	50.0%	0.0%	0.0%
Proctopexy - open	2	50.0%	37.5	0.0%	0.0%	0.0%
CABG	1	100.0%	75.0	0.0%	0.0%	0.0%
Pollicization of a digit	1	100.0%	75.0	0.0%	0.0%	0.0%
Shunt; superior vena cava to pulmonary artery for flow to both lungs (bidirectional Glenn procedure)	1	100.0%	75.0	0.0%	0.0%	0.0%
Syndactylization, toes	1	100.0%	75.0	0.0%	0.0%	0.0%
Incision and drainage of abscess in posterior spine	6	16.7%	11.3	0.0%	0.0%	0.0%
Revision of cranial neurostimulator pulse generator or receiver	6	33.3%	11.3	0.0%	0.0%	0.0%
Excision of Meckel diverticulum or omphalomesenteric duct	6	16.7%	10.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Drainage of perirenal or renal abscess - open	2	50.0%	30.0	0.0%	0.0%	0.0%
Laparoscopic renal procedure	2	100.0%	30.0	0.0%	0.0%	0.0%
Gastrostomy	15	6.7%	3.3	0.0%	0.0%	0.0%
Excision of olecranon bursa	3	33.3%	16.7	0.0%	0.0%	0.0%
Repair of ectropion	2	50.0%	25.0	0.0%	0.0%	0.0%
Radial styloidectomy	1	100.0%	50.0	0.0%	0.0%	0.0%
Repair of meningocele or myelomeningocele	1	100.0%	50.0	0.0%	0.0%	0.0%
Fistulization of sclera for glaucoma	9	22.2%	5.0	0.0%	0.0%	0.0%
Implantation of intrastromal corneal ring segments	6	16.7%	7.5	0.0%	0.0%	0.0%
Alveolectomy	5	20.0%	9.0	0.0%	0.0%	0.0%
Ureterectomy	1	100.0%	45.0	0.0%	0.0%	0.0%
Ablation of intra-abdominal tumor or benign lesion - laparoscopic	3	33.3%	13.3	0.0%	0.0%	0.0%
Laparoscopic ureteral procedure	2	50.0%	20.0	0.0%	0.0%	0.0%
Epiglottidectomy	1	100.0%	40.0	0.0%	0.0%	0.0%
Trachelorrhaphy, plastic repair of uterine cervix, vaginal approach	8	12.5%	4.7	0.0%	0.0%	0.0%
Thoracotomy, with removal of intrapleural foreign body or fibrin deposit	3	33.3%	12.5	0.0%	0.0%	0.0%
Adrenalectomy - open	2	50.0%	18.8	0.0%	0.0%	0.0%
Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection	1	100.0%	37.5	0.0%	0.0%	0.0%
Transcatheter pulmonary valve implantation	45	2.2%	0.7	0.0%	0.0%	0.0%
Cricopharyngeal myotomy	3	33.3%	8.3	0.0%	0.0%	0.0%
Intestinal procedure, lysis of adhesions	14	7.1%	1.6	0.0%	0.0%	0.0%
Endoscopic plantar fasciotomy	5	20.0%	4.5	0.0%	0.0%	0.0%
Resection of scrotum	3	33.3%	7.5	0.0%	0.0%	0.0%
Intravitreal injection of a pharmacologic agent	276	0.4%	0.0	0.0%	0.0%	0.0%
Removal of implanted material, eye	17	5.9%	0.1	0.0%	0.0%	0.0%
Insertion of intraocular lens prosthesis, not associated with concurrent cataract removal	7	14.3%	0.2	0.0%	0.0%	0.0%
Destruction of localized lesion of retina	33	3.0%	0.0	0.0%	0.0%	0.0%
Removal of lens material	12	8.3%	0.1	0.0%	0.0%	0.0%
Placement of needle for intraosseous infusion	18	0.0%	0.0	0.0%	0.0%	0.0%
Percardial drainage	15	0.0%	0.0	0.0%	0.0%	0.0%
Elevation of depressed skull fracture	14	0.0%	0.0	0.0%	0.0%	0.0%
Removal of implant from finger or hand	12	0.0%	0.0	0.0%	0.0%	0.0%
Tracheostoma revision	10	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, intestinal hernia and volvulus derotation open laparotomy	9	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with cardiac massage	9	0.0%	0.0	0.0%	0.0%	0.0%
Removal of vitreous, anterior approach	8	0.0%	0.0	0.0%	0.0%	0.0%
Goniotomy	7	0.0%	0.0	0.0%	0.0%	0.0%
Surgical treatment of abortion	7	0.0%	0.0	0.0%	0.0%	0.0%
Trabeculectomy ab externo	7	0.0%	0.0	0.0%	0.0%	0.0%
Removal or repair of electromagnetic bone conduction hearing device in temporal bone	6	0.0%	0.0	0.0%	0.0%	0.0%
Revision or repair of operative wound of anterior segment of eye	6	0.0%	0.0	0.0%	0.0%	0.0%
Intracranial aneurysm repair - open	5	0.0%	0.0	0.0%	0.0%	0.0%
Nasal/sinus endoscopy	5	0.0%	0.0	0.0%	0.0%	0.0%
Canthopexy	4	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of eyelid	4	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Removal of foreign body, intraocular	4	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with pulmonary decortication	4	0.0%	0.0	0.0%	0.0%	0.0%
Thrombectomy or thrombolysis, percutaneous intracranial	4	0.0%	0.0	0.0%	0.0%	0.0%
Arthroplasty of shoulder	3	0.0%	0.0	0.0%	0.0%	0.0%
Cutaneous vesicostomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Esophagoplasty	3	0.0%	0.0	0.0%	0.0%	0.0%
Excision of dermoid cyst, nose	3	0.0%	0.0	0.0%	0.0%	0.0%
Gingivoplasty	3	0.0%	0.0	0.0%	0.0%	0.0%
Heart transplant	3	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of abscess; retropharyngeal or parapharyngeal	3	0.0%	0.0	0.0%	0.0%	0.0%
Laryngeal reinnervation by neuromuscular pedicle	3	0.0%	0.0	0.0%	0.0%	0.0%
Release of extensive scar tissue without detaching extraocular muscle (separate procedure)	3	0.0%	0.0	0.0%	0.0%	0.0%
Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy	3	0.0%	0.0	0.0%	0.0%	0.0%
Closure of cystostomy	2	0.0%	0.0	0.0%	0.0%	0.0%
Construction of artificial vagina	2	0.0%	0.0	0.0%	0.0%	0.0%
Correction of lagophthalmos	2	0.0%	0.0	0.0%	0.0%	0.0%
Correction of lid retraction	2	0.0%	0.0	0.0%	0.0%	0.0%
Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa	2	0.0%	0.0	0.0%	0.0%	0.0%
Debridement of shoulder	2	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of ovarian abscess	2	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of retroperitoneal abscess - open	2	0.0%	0.0	0.0%	0.0%	0.0%
Excision of cystic hygroma	2	0.0%	0.0	0.0%	0.0%	0.0%
Gender affirming procedure, clitoroplasty	2	0.0%	0.0	0.0%	0.0%	0.0%
Myomectomy, fibroid	2	0.0%	0.0	0.0%	0.0%	0.0%
Paracentesis of anterior chamber of eye	2	0.0%	0.0	0.0%	0.0%	0.0%
Proctoplasty	2	0.0%	0.0	0.0%	0.0%	0.0%
Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)	2	0.0%	0.0	0.0%	0.0%	0.0%
Radical excision of external auditory canal lesion	2	0.0%	0.0	0.0%	0.0%	0.0%
Removal of foreign body from deep penile tissue (eg, plastic implant)	2	0.0%	0.0	0.0%	0.0%	0.0%
Repair of brow ptosis	2	0.0%	0.0	0.0%	0.0%	0.0%
Repair of pulmonary atresia with ventricular septal defect, by construction or replacement of conduit from right or left ventricle to pulmonary artery	2	0.0%	0.0	0.0%	0.0%	0.0%
Repair of round window fistula	2	0.0%	0.0	0.0%	0.0%	0.0%
Replantation, upper extremity	2	0.0%	0.0	0.0%	0.0%	0.0%
Repositioning of intraocular lens prosthesis, requiring an incision	2	0.0%	0.0	0.0%	0.0%	0.0%
Revision of aqueous shunt to extraocular equatorial plate reservoir	2	0.0%	0.0	0.0%	0.0%	0.0%
Revision of tracheostomy scar	2	0.0%	0.0	0.0%	0.0%	0.0%
Septal or other intranasal dermatoplasty	2	0.0%	0.0	0.0%	0.0%	0.0%
Sling operation for stress incontinence	2	0.0%	0.0	0.0%	0.0%	0.0%
Thoracoscopy, control of hemorrhage	2	0.0%	0.0	0.0%	0.0%	0.0%
Ureterolysis	2	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Vermilionectomy, with mucosal advancement	2	0.0%	0.0	0.0%	0.0%	0.0%
Arthroplasty of ankle	1	0.0%	0.0	0.0%	0.0%	0.0%
Banding of pulmonary artery	1	0.0%	0.0	0.0%	0.0%	0.0%
Biliary reconstruction - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Cardiac ablation	1	0.0%	0.0	0.0%	0.0%	0.0%
Cardiac procedure, unlisted	1	0.0%	0.0	0.0%	0.0%	0.0%
Closure of rectovesical fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Closure of salivary fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Colotomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Colpopexy - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Condylectomy of temporomandibular joint	1	0.0%	0.0	0.0%	0.0%	0.0%
Coracoacromial ligament release	1	0.0%	0.0	0.0%	0.0%	0.0%
Creation of lesion by stereotactic method	1	0.0%	0.0	0.0%	0.0%	0.0%
Cricotracheal resection	1	0.0%	0.0	0.0%	0.0%	0.0%
Cystectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Diverticulectomy of hypopharynx or esophagus	1	0.0%	0.0	0.0%	0.0%	0.0%
Division of stricture of rectum	1	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of salivary gland abscess	1	0.0%	0.0	0.0%	0.0%	0.0%
Drainage of subdiaphragmatic or subphrenic abscess - open	1	0.0%	0.0	0.0%	0.0%	0.0%
ECMO	1	0.0%	0.0	0.0%	0.0%	0.0%
Endovascular aortic valve replacement	1	0.0%	0.0	0.0%	0.0%	0.0%
Epiphyseal or hemiepiphyseal arrest, upper extremity	1	0.0%	0.0	0.0%	0.0%	0.0%
Esophagogastric fundoplasty	1	0.0%	0.0	0.0%	0.0%	0.0%
Esophagomyotomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Exchange of intraocular lens	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of Mullerian duct cyst	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of ampulla of Vater	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of choledochal cyst	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of coarctation of aorta	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion of palate, uvula	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion of tendon sheath, forearm and/or wrist	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of lesion, conjunctiva	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of stomach ulcer or tumor	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision of tonsil tags	1	0.0%	0.0	0.0%	0.0%	0.0%
Excision or unroofing of cyst(s) of kidney	1	0.0%	0.0	0.0%	0.0%	0.0%
Fascia lata graft	1	0.0%	0.0	0.0%	0.0%	0.0%
Filletted finger or toe flap, including preparation of recipient site	1	0.0%	0.0	0.0%	0.0%	0.0%
Hysteroplasty, repair of uterine anomaly (Strassman type)	1	0.0%	0.0	0.0%	0.0%	0.0%
Implantation of chemotherapy device	1	0.0%	0.0	0.0%	0.0%	0.0%
Incision and drainage of appendiceal abscess - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Insertion of subcutaneous reservoir, pump or continuous infusion system for connection to ventricular catheter (CNS)	1	0.0%	0.0	0.0%	0.0%	0.0%
Intestinal procedure, strictuloplasty	1	0.0%	0.0	0.0%	0.0%	0.0%
Iridectomy, with corneoscleral or corneal section	1	0.0%	0.0	0.0%	0.0%	0.0%
Keratomiileusis	1	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic esophagus procedure	1	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic rectal procedure	1	0.0%	0.0	0.0%	0.0%	0.0%
Laparoscopic uterine procedure	1	0.0%	0.0	0.0%	0.0%	0.0%
Multiple punctures of anterior cornea (eg, for corneal erosion, tattoo)	1	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 8** Continued

<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid Rx</b>	<b>Refill rate</b>	<b>Share of total MMEs</b>	<b>Share of surgical opioid Rx</b>
Muscle transfer, upper extremity	1	0.0%	0.0	0.0%	0.0%	0.0%
Non-surgical repair of anal or anorectal fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Optic nerve decompression	1	0.0%	0.0	0.0%	0.0%	0.0%
Penile reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic	1	0.0%	0.0	0.0%	0.0%	0.0%
Ptosis correction	1	0.0%	0.0	0.0%	0.0%	0.0%
Pulmonary endarterectomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Reconstruction of tendon pulley; finger	1	0.0%	0.0	0.0%	0.0%	0.0%
Release or recession, hamstring, proximal	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of hip prosthesis	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of mammary implant	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal of ventricular assist device	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal or revision of orbital implant	1	0.0%	0.0	0.0%	0.0%	0.0%
Removal or revision of sling for stress incontinence	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of arteriovenous fistula, congenital	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of cardiac wound	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of double outlet right ventricle with intraventricular tunnel repair	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of iris, ciliary body	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of nasolabial fistula	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of transposition of the great arteries	1	0.0%	0.0	0.0%	0.0%	0.0%
Repair of wound, extraocular muscle, tendon and/or Tenon's capsule	1	0.0%	0.0	0.0%	0.0%	0.0%
Replacement, irrigation or revision of lumbosubarachnoid shunt	1	0.0%	0.0	0.0%	0.0%	0.0%
Revision (including removal) of prosthetic vaginal graft - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Revision of peritoneal-venous shunt	1	0.0%	0.0	0.0%	0.0%	0.0%
Scleral reinforcement	1	0.0%	0.0	0.0%	0.0%	0.0%
Secondary revision of orbitocraniofacial reconstruction	1	0.0%	0.0	0.0%	0.0%	0.0%
Severing adhesions of anterior segment of eye	1	0.0%	0.0	0.0%	0.0%	0.0%
Shoulder contracture release	1	0.0%	0.0	0.0%	0.0%	0.0%
Sternal ostectomy, debridgement, resection	1	0.0%	0.0	0.0%	0.0%	0.0%
Suture and/or ligation of thoracic duct	1	0.0%	0.0	0.0%	0.0%	0.0%
Suture of iris, ciliary body	1	0.0%	0.0	0.0%	0.0%	0.0%
Tendon graft harvest	1	0.0%	0.0	0.0%	0.0%	0.0%
Thoracoscopy, with esophagomyotomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Thoracotomy, with resection-plication of bullae, includes any pleural procedure when performed	1	0.0%	0.0	0.0%	0.0%	0.0%
Transcatheter placement of intravascular stent - percutaneous	1	0.0%	0.0	0.0%	0.0%	0.0%
Transfer of tendon or muscle, hamstrings to femur	1	0.0%	0.0	0.0%	0.0%	0.0%
Ureteroenterostomy	1	0.0%	0.0	0.0%	0.0%	0.0%
Ureterolithotomy - open	1	0.0%	0.0	0.0%	0.0%	0.0%
Urethrorrhaphy	1	0.0%	0.0	0.0%	0.0%	0.0%
Venous valve transposition, any vein donor	1	0.0%	0.0	0.0%	0.0%	0.0%

**SUPPLEMENTAL TABLE 9** Top 10 Procedures by Share of Total MMEs Among Adolescents Aged 12–21 Years, by Payer Type

<b>Privately insured adolescents aged 12-21 y</b>				
<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid prescription</b>	<b>Share of dispensed opioid prescriptions in the sample</b>
Arthroscopy of knee	7943	47.2%	93.9	13.1%
Tonsillectomy and/or adenoidectomy	5134	52.8%	126.9	9.5%
Arthroscopy of shoulder	2452	47.6%	114.3	4.1%
Rhinoplasty	2908	50.1%	93.1	5.1%
Open treatment of fracture, upper extremity	2871	52.6%	80.8	5.3%
Open treatment of fracture, lower extremity	2299	49.0%	98.4	3.9%
Appendectomy – laparoscopic	3682	40.7%	46.5	5.2%
Cholecystectomy – laparoscopic	1651	60.4%	89.0	3.5%
Ligamentous reconstruction (augmentation), knee	1168	52.1%	122.3	2.1%
Cesarean section	1127	50.9%	79.4	2.0%
<b>Publicly insured adolescents aged 12-21 y</b>				
<b>Procedure</b>	<b>Number of procedures</b>	<b>Opioid dispensing rate</b>	<b>Mean MMEs per dispensed opioid prescription</b>	<b>Share of dispensed opioid prescriptions in the sample</b>
Tonsillectomy and/or adenoidectomy	4226	64.1%	197.4	10.1%
Cesarean section	6393	60.2%	128.4	14.3%
Arthroscopy of knee	3281	69.3%	221.0	8.4%
Open treatment of fracture, lower extremity	1614	64.9%	208.6	3.9%
Open treatment of fracture, upper extremity	1777	65.9%	183.6	4.4%
Cholecystectomy – laparoscopic	2202	64.7%	133.1	5.3%
Appendectomy – laparoscopic	2859	44.1%	89.7	4.7%
Rhinoplasty	1108	65.3%	178.7	2.7%
Arthroscopy of shoulder	800	64.3%	224.8	1.9%
Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	1360	55.4%	122.9	2.8%

<b>SUPPLEMENTAL TABLE 10</b> Results From Main Analysis Versus Sensitivity Analysis		
<b>Age group</b>	<b>Main analysis, procedures with discharge date between December 1, 2020 through November 30, 2021</b>	<b>Share of total MMEs</b>
0-11 years	Tonsillectomy and/or adenoidectomy	50.3%
	Open treatment of fracture, upper extremity	5.3%
	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	3.5%
	<b>Sensitivity analysis, procedures with discharge date between December 1, 2018 through November 30, 2019</b>	
	Tonsillectomy and/or adenoidectomy	63.7%
	Open treatment of fracture, upper extremity	2.6%
	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	2.2%
12-21 years	<b>Main analysis, procedures with discharge date between December 1, 2020 through November 30, 2021</b>	
	Tonsillectomy and/or adenoidectomy	12.7%
	Arthroscopy of knee	12.6%
	Cesarean section	7.8%
	<b>Sensitivity analysis, procedures with discharge date between December 1, 2018 through November 30, 2019</b>	
	Arthroscopy of knee	15.2%
	Tonsillectomy and/or adenoidectomy	14.2%
Cesarean section	8.2%	

## CROSSWALK BETWEEN SURGERY-RELATED CPT CODES AND PROCEDURE TYPE

Code	Code description	Procedure type
49900	Suture, secondary, of abdominal wall for evisceration or dehiscence	Abdominal wall repair, dehiscence
51845	Abdomino-vaginal vesical neck suspension, with or without endoscopic control (eg, Stamey, Raz, modified Pereyra)	Abdomino-vaginal vesical neck suspension
50541	Laparoscopy, surgical; ablation of renal cysts	Ablation of intra-abdominal tumor or benign lesion - laparoscopic
50542	Laparoscopy, surgical; ablation of renal mass lesion(s), including intraoperative ultrasound guidance and monitoring, when performed	Ablation of intra-abdominal tumor or benign lesion - laparoscopic
47370	Laparoscopy, surgical, ablation of 1 or more liver tumor(s); radiofrequency	Ablation of intra-abdominal tumor or benign lesion - laparoscopic
47371	Laparoscopy, surgical, ablation of 1 or more liver tumor(s); cryosurgical	Ablation of intra-abdominal tumor or benign lesion - laparoscopic
47380	Ablation - open, of 1 or more liver tumor(s); radiofrequency	Ablation of intraabdominal tumor or benign lesion — open
50250	Ablation - open, 1 or more renal mass lesion(s), cryosurgical, including intraoperative ultrasound guidance and monitoring, if performed	Ablation of intraabdominal tumor or benign lesion — open
47381	Ablation - open, of 1 or more liver tumor(s); cryosurgical	Ablation of intraabdominal tumor or benign lesion — open
27120	Acetabuloplasty; (eg, Whitman, Colonna, Haygroves, or cup type)	Acetabuloplasty
27122	Acetabuloplasty; resection, femoral head (eg, Girdlestone procedure)	Acetabuloplasty
23130	Acromioplasty or acromionectomy, partial, with or without coracoacromial ligament release	Acromioplasty or acromionectomy
14001	Adjacent tissue transfer or rearrangement, trunk; defect 10.1 sq cm to 30.0 sq cm	Adjacent tissue transfer or rearrangement
14040	Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10 sq cm or less	Adjacent tissue transfer or rearrangement
14301	Adjacent tissue transfer or rearrangement, any area; defect 30.1 sq cm to 60.0 sq cm	Adjacent tissue transfer or rearrangement
14021	Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10.1 sq cm to 30.0 sq cm	Adjacent tissue transfer or rearrangement
14020	Adjacent tissue transfer or rearrangement, scalp, arms and/or legs; defect 10 sq cm or less	Adjacent tissue transfer or rearrangement
14060	Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10 sq cm or less	Adjacent tissue transfer or rearrangement
14041	Adjacent tissue transfer or rearrangement, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands and/or feet; defect 10.1 sq cm to 30.0 sq cm	Adjacent tissue transfer or rearrangement
14061	Adjacent tissue transfer or rearrangement, eyelids, nose, ears and/or lips; defect 10.1 sq cm to 30.0 sq cm	Adjacent tissue transfer or rearrangement
14000	Adjacent tissue transfer or rearrangement, trunk; defect 10 sq cm or less	Adjacent tissue transfer or rearrangement
60650	Laparoscopy, surgical, with adrenalectomy, partial or complete, or exploration of adrenal gland with or without biopsy, transabdominal, lumbar or dorsal	Adrenalectomy - laparoscopic
60545	Adrenalectomy, partial or complete, or exploration of adrenal gland with or without biopsy, transabdominal, lumbar or dorsal (separate procedure); with excision of adjacent retroperitoneal tumor	Adrenalectomy - open
60540	Adrenalectomy, partial or complete, or exploration of adrenal gland with or without biopsy, transabdominal, lumbar or dorsal (separate procedure);	Adrenalectomy - open
41830	Alveolectomy, including curettage of osteitis or sequestrectomy	Alveolectomy
41874	Alveoloplasty, each quadrant (specify)	Alveoloplasty
27888	Amputation, ankle, through malleoli of tibia and fibula (eg, Syme, Pirogoff type procedures), with plastic closure and resection of nerves	Amputation of lower extremity
27889	Ankle disarticulation	Amputation of lower extremity
28810	Amputation, metatarsal, with toe, single	Amputation of lower extremity
28820	Amputation, toe; metatarsophalangeal joint	Amputation of lower extremity
28800	Amputation, foot; midtarsal (eg, Chopart type procedure)	Amputation of lower extremity
28825	Amputation, toe; interphalangeal joint	Amputation of lower extremity
28805	Amputation, foot; transmetatarsal	Amputation of lower extremity
27290	Interpelviabdominal amputation (hindquarter amputation)	Amputation of lower extremity
27295	Disarticulation of hip	Amputation of lower extremity
27592	Amputation, thigh, through femur, any level; open, circular (guillotine)	Amputation of lower extremity

Continued		
Code	Code description	Procedure type
27598	Disarticulation at knee	Amputation of lower extremity
27882	Amputation, leg, through tibia and fibula; open, circular (guillotine)	Amputation of lower extremity
27596	Amputation, thigh, through femur, any level; re-amputation	Amputation of lower extremity
27590	Amputation, thigh, through femur, any level;	Amputation of lower extremity
27884	Amputation, leg, through tibia and fibula; secondary closure or scar revision	Amputation of lower extremity
27881	Amputation, leg, through tibia and fibula; with immediate fitting technique including application of first cast	Amputation of lower extremity
27886	Amputation, leg, through tibia and fibula; re-amputation	Amputation of lower extremity
27594	Amputation, thigh, through femur, any level; secondary closure or scar revision	Amputation of lower extremity
27591	Amputation, thigh, through femur, any level; immediate fitting technique including first cast	Amputation of lower extremity
27880	Amputation, leg, through tibia and fibula;	Amputation of lower extremity
54130	Amputation of penis, radical; with bilateral inguofemoral lymphadenectomy	Amputation of penis
54135	Amputation of penis, radical; in continuity with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes	Amputation of penis
54120	Amputation of penis; partial	Amputation of penis
54125	Amputation of penis; complete	Amputation of penis
26910	Amputation, metacarpal, with finger or thumb (ray amputation), single, with or without interosseous transfer	Amputation of upper extremity
26952	Amputation, finger or thumb, primary or secondary, any joint or phalanx, single, including neurectomies; with local advancement flaps (V-Y, hood)	Amputation of upper extremity
26951	Amputation, finger or thumb, primary or secondary, any joint or phalanx, single, including neurectomies; with direct closure	Amputation of upper extremity
25931	Transmetacarpal amputation; re-amputation	Amputation of upper extremity
25929	Transmetacarpal amputation; secondary closure or scar revision	Amputation of upper extremity
25927	Transmetacarpal amputation;	Amputation of upper extremity
23900	Interthoracoscapular amputation (forequarter)	Amputation of upper extremity
25907	Amputation, forearm, through radius and ulna; secondary closure or scar revision	Amputation of upper extremity
25909	Amputation, forearm, through radius and ulna; re-amputation	Amputation of upper extremity
25905	Amputation, forearm, through radius and ulna; open, circular (guillotine)	Amputation of upper extremity
24900	Amputation, arm through humerus; with primary closure	Amputation of upper extremity
24930	Amputation, arm through humerus; re-amputation	Amputation of upper extremity
24931	Amputation, arm through humerus; with implant	Amputation of upper extremity
24920	Amputation, arm through humerus; open, circular (guillotine)	Amputation of upper extremity
24925	Amputation, arm through humerus; secondary closure or scar revision	Amputation of upper extremity
25900	Amputation, forearm, through radius and ulna;	Amputation of upper extremity
35102	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta involving iliac vessels (common, hypogastric, external)	Aneurysm/pseudoaneurysm repair
35091	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta involving visceral vessels (mesenteric, celiac, renal)	Aneurysm/pseudoaneurysm repair
35092	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving visceral vessels (mesenteric, celiac, renal)	Aneurysm/pseudoaneurysm repair
35103	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta involving iliac vessels (common, hypogastric, external)	Aneurysm/pseudoaneurysm repair
35082	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, abdominal aorta	Aneurysm/pseudoaneurysm repair
35013	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, axillary- brachial artery, by arm incision	Aneurysm/pseudoaneurysm repair
35011	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm and associated occlusive disease, axillary- brachial artery, by arm incision	Aneurysm/pseudoaneurysm repair

Continued		
Code	Code description	Procedure type
35001	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm and associated occlusive disease, carotid, subclavian artery, by neck incision	Aneurysm/psuedoaneurysm repair
35002	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, carotid, subclavian artery, by neck incision	Aneurysm/psuedoaneurysm repair
35141	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, common femoral artery (profunda femoris, superficial femoral)	Aneurysm/psuedoaneurysm repair
35121	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, hepatic, celiac, renal, or mesenteric artery	Aneurysm/psuedoaneurysm repair
35122	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, hepatic, celiac, renal, or mesenteric artery	Aneurysm/psuedoaneurysm repair
35131	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, iliac artery (common, hypogastric, external)	Aneurysm/psuedoaneurysm repair
35132	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, iliac artery (common, hypogastric, external)	Aneurysm/psuedoaneurysm repair
35081	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, abdominal aorta	Aneurysm/psuedoaneurysm repair
35045	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, radial or ulnar artery	Aneurysm/psuedoaneurysm repair
35111	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, splenic artery	Aneurysm/psuedoaneurysm repair
35112	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, splenic artery	Aneurysm/psuedoaneurysm repair
35021	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, innominate, subclavian artery, by thoracic incision	Aneurysm/psuedoaneurysm repair
35022	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, innominate, subclavian artery, by thoracic incision	Aneurysm/psuedoaneurysm repair
35005	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, vertebral artery	Aneurysm/psuedoaneurysm repair
35460	Transluminal balloon angioplasty - open; venous	Angioplasty - open
35458	Transluminal balloon angioplasty - open; brachiocephalic trunk or branches, each vessel	Angioplasty - open
35450	Transluminal balloon angioplasty - open; renal or other visceral artery	Angioplasty - open
35452	Transluminal balloon angioplasty - open; aortic	Angioplasty - open
61630	Balloon angioplasty, intracranial (eg, atherosclerotic stenosis), percutaneous	Angioplasty, intracranial - percutaneous
61640	Balloon dilatation of intracranial vasospasm, percutaneous; initial vessel	Angioplasty, intracranial - percutaneous
46700	Anoplasty, plastic operation for stricture; adult	Anoplasty
46705	Anoplasty, plastic operation for stricture; infant	Anoplasty
33866	Aortic hemiarch graft including isolation and control of the arch vessels, beveled open distal aortic anastomosis extending under one or more of the arch vessels, and total circulatory arrest or isolated cerebral perfusion (List separately in addition to code for primary procedure)	Aortic reconstruction/repair
33871	Transverse aortic arch graft, with cardiopulmonary bypass, with profound hypothermia, total circulatory arrest and isolated cerebral perfusion with reimplantation of arch vessel(s) (eg, island pedicle or individual arch vessel reimplantation)	Aortic reconstruction/repair
33321	Suture repair of aorta or great vessels; with shunt bypass	Aortic reconstruction/repair

Continued		
Code	Code description	Procedure type
33320	Suture repair of aorta or great vessels; without shunt or cardiopulmonary bypass	Aortic reconstruction/repair
33870	Transverse arch graft, with cardiopulmonary bypass	Aortic reconstruction/repair
33860	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed	Aortic reconstruction/repair
33864	Ascending aorta graft, with cardiopulmonary bypass with valve suspension, with coronary reconstruction and valve-sparing aortic root remodeling (eg, David Procedure, Yacoub Procedure)	Aortic reconstruction/repair
33863	Ascending aorta graft, with cardiopulmonary bypass, with aortic root replacement using valved conduit and coronary reconstruction (eg, Bentall)	Aortic reconstruction/repair
33859	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic disease other than dissection (eg, aneurysm)	Aortic reconstruction/repair
33404	Construction of apical-aortic conduit	Aortic reconstruction/repair
33330	Insertion of graft, aorta or great vessels; without shunt, or cardiopulmonary bypass	Aortic reconstruction/repair
33335	Insertion of graft, aorta or great vessels; with cardiopulmonary bypass	Aortic reconstruction/repair
33322	Suture repair of aorta or great vessels; with cardiopulmonary bypass	Aortic reconstruction/repair
33332	Insertion of graft, aorta or great vessels; with shunt bypass	Aortic reconstruction/repair
33858	Ascending aorta graft, with cardiopulmonary bypass, includes valve suspension, when performed; for aortic dissection	Aortic reconstruction/repair
34841	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including one visceral artery endoprosthesis (superior mesenteric, celiac or renal artery)	Aortic reconstruction/repair
75958	Placement of proximal extension prosthesis for endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption), radiological supervision and interpretation	Aortic reconstruction/repair
34825	Placement of proximal or distal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, or dissection; initial vessel	Aortic reconstruction/repair
34846	Endovascular repair of visceral aorta and infrarenal abdominal aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) with a fenestrated visceral aortic endograft and concomitant unibody or modular infrarenal aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including two visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
34705	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-bi-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)	Aortic reconstruction/repair
34845	Endovascular repair of visceral aorta and infrarenal abdominal aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) with a fenestrated visceral aortic endograft and concomitant unibody or modular infrarenal aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including one visceral artery endoprosthesis (superior mesenteric, celiac or renal artery)	Aortic reconstruction/repair
34804	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using unibody bifurcated prosthesis	Aortic reconstruction/repair
75959	Placement of distal extension prosthesis(s) (delayed) after endovascular repair of descending thoracic aorta, as needed, to level of celiac origin, radiological supervision and interpretation	Aortic reconstruction/repair
34706	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-bi-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for rupture including temporary aortic and/or iliac balloon occlusion, when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)	Aortic reconstruction/repair

Continued		
Code	Code description	Procedure type
34847	Endovascular repair of visceral aorta and infrarenal abdominal aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) with a fenestrated visceral aortic endograft and concomitant unibody or modular infrarenal aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including three visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
34842	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including two visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
33883	Placement of proximal extension prosthesis for endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); initial extension	Aortic reconstruction/repair
34802	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (1 docking limb)	Aortic reconstruction/repair
34803	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using modular bifurcated prosthesis (2 docking limbs)	Aortic reconstruction/repair
34712	Transcatheter delivery of enhanced fixation device(s) to the endograft (eg, anchor, screw, tack) and all associated radiological supervision and interpretation	Aortic reconstruction/repair
34800	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto-aortic tube prosthesis	Aortic reconstruction/repair
34805	Endovascular repair of infrarenal abdominal aortic aneurysm or dissection; using aorto-uniiliac or aorto-unifemoral prosthesis	Aortic reconstruction/repair
34710	Delayed placement of distal or proximal extension prosthesis for endovascular repair of infrarenal abdominal aortic or iliac aneurysm, false aneurysm, dissection, endoleak, or endograft migration, including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and treatment zone angioplasty/stenting, when performed; initial vessel treated	Aortic reconstruction/repair
34843	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including three visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
33886	Placement of distal extension prosthesis(s) delayed after endovascular repair of descending thoracic aorta	Aortic reconstruction/repair
34704	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-uni-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for rupture including temporary aortic and/or iliac balloon occlusion, when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)	Aortic reconstruction/repair
34701	Endovascular repair of infrarenal aorta by deployment of an aorto-aortic tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the aortic bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the aortic bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)	Aortic reconstruction/repair
33881	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); not involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin	Aortic reconstruction/repair
34702	Endovascular repair of infrarenal aorta by deployment of an aorto-aortic tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the aortic bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the aortic bifurcation; for rupture including temporary aortic and/or iliac balloon occlusion, when performed (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer, traumatic disruption)	Aortic reconstruction/repair

Continued		
Code	Code description	Procedure type
34703	Endovascular repair of infrarenal aorta and/or iliac artery(ies) by deployment of an aorto-uni-iliac endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, all endograft extension(s) placed in the aorta from the level of the renal arteries to the iliac bifurcation, and all angioplasty/stenting performed from the level of the renal arteries to the iliac bifurcation; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, penetrating ulcer)	Aortic reconstruction/repair
33880	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin	Aortic reconstruction/repair
34848	Endovascular repair of visceral aorta and infrarenal abdominal aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) with a fenestrated visceral aortic endograft and concomitant unibody or modular infrarenal aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including four or more visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
75956	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin, radiological supervision and interpretation	Aortic reconstruction/repair
34844	Endovascular repair of visceral aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption) by deployment of a fenestrated visceral aortic endograft and all associated radiological supervision and interpretation, including target zone angioplasty, when performed; including four or more visceral artery endoprostheses (superior mesenteric, celiac and/or renal artery[s])	Aortic reconstruction/repair
75957	Endovascular repair of descending thoracic aorta (eg, aneurysm, pseudoaneurysm, dissection, penetrating ulcer, intramural hematoma, or traumatic disruption); not involving coverage of left subclavian artery origin, initial endoprosthesis plus descending thoracic aortic extension(s), if required, to level of celiac artery origin, radiological supervision and interpretation	Aortic reconstruction/repair
33877	Repair of thoracoabdominal aortic aneurysm with graft, with or without cardiopulmonary bypass	Aortic reconstruction/repair
33875	Descending thoracic aorta graft, with or without bypass	Aortic reconstruction/repair
33783	Aortic root translocation with ventricular septal defect and pulmonary stenosis repair (ie, Nikaidoh procedure); with reimplantation of 1 or both coronary ostia	Aortic root translocation with ventricular septal defect and pulmonary stenosis repair
33782	Aortic root translocation with ventricular septal defect and pulmonary stenosis repair (ie, Nikaidoh procedure); without coronary ostium reimplantation	Aortic root translocation with ventricular septal defect and pulmonary stenosis repair
33800	Aortic suspension (aortopexy) for tracheal decompression (eg, for tracheomalacia) (separate procedure)	Aortic suspension for tracheal decompression
33410	Replacement, aortic valve, with cardiopulmonary bypass; with stentless tissue valve	Aortic valve repair/replacement - open
33411	Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	Aortic valve repair/replacement - open
33413	Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	Aortic valve repair/replacement - open
33440	Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross- Konno procedure)	Aortic valve repair/replacement - open
33405	Replacement, aortic valve, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Aortic valve repair/replacement - open
33401	Valvuloplasty, aortic valve; open, with inflow occlusion	Aortic valve repair/replacement - open
33406	Replacement, aortic valve, with cardiopulmonary bypass; with allograft valve (freehand)	Aortic valve repair/replacement - open
33390	Valvuloplasty, aortic valve - open, with cardiopulmonary bypass; simple (ie, valvotomy, debridement, debulking, and/or simple commissural resuspension)	Aortic valve repair/replacement - open
33400	Valvuloplasty, aortic valve; open, with cardiopulmonary bypass	Aortic valve repair/replacement - open
33403	Valvuloplasty, aortic valve; using transventricular dilation, with cardiopulmonary bypass	Aortic valve repair/replacement - open

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Code	Code description	Procedure type
33412	Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	Aortic valve repair/replacement - open
33602	Closure of semilunar valve (aortic or pulmonary) by suture or patch	Aortic valve repair/replacement - open
33391	Valvuloplasty, aortic valve - open, with cardiopulmonary bypass; complex (eg, leaflet extension, leaflet resection, leaflet reconstruction, or annuloplasty)	Aortic valve repair/replacement - open
33417	Aortoplasty (gusset) for supraaortic stenosis	Aortoplasty (gusset) for supraaortic stenosis
44970	Laparoscopy, surgical, appendectomy	Appendectomy - laparoscopic
44950	Appendectomy;	Appendectomy - open
44960	Appendectomy; for ruptured appendix with abscess or generalized peritonitis	Appendectomy - open
20690	Application of a uniplane (pins or wires in 1 plane), unilateral, external fixation system	Application of external fixation system
20697	Application of multiplane (pins or wires in more than 1 plane), unilateral, external fixation with stereotactic computer-assisted adjustment (eg, spatial frame), including imaging; exchange (ie, removal and replacement) of strut, each	Application of external fixation system
20692	Application of a multiplane (pins or wires in more than 1 plane), unilateral, external fixation system (eg, Ilizarov, Monticelli type)	Application of external fixation system
20696	Application of multiplane (pins or wires in more than 1 plane), unilateral, external fixation with stereotactic computer-assisted adjustment (eg, spatial frame), including imaging; initial and subsequent alignment(s), assessment(s), and computation(s) of adjustment schedule(s)	Application of external fixation system
20693	Adjustment or revision of external fixation system requiring anesthesia (eg, new pin[s] or wire[s] and/or new ring[s] or bar[s])	Application of external fixation system
20661	Application of halo, including removal; cranial	Application of halo, including removal
20664	Application of halo, including removal, cranial, 6 or more pins placed, for thin skull osteology (eg, pediatric patients, hydrocephalus, osteogenesis imperfecta)	Application of halo, including removal
33620	Application of right and left pulmonary artery bands (eg, hybrid approach stage 1)	Application of right and left pulmonary artery bands
66180	Aqueous shunt to extraocular reservoir (eg, Molteno, Schocket, Denver- Krupin)	Aqueous shunt to extraocular equatorial plate reservoir
35526	Bypass graft, with vein; aortosubclavian, aortoinnominate, or aortocarotid	Arterial bypass
35540	Bypass graft, with vein; aortobifemoral	Arterial bypass
35539	Bypass graft, with vein; aortofemoral	Arterial bypass
35538	Bypass graft, with vein; aortobi-iliac	Arterial bypass
35537	Bypass graft, with vein; aortoiliac	Arterial bypass
35560	Bypass graft, with vein; aortorenal	Arterial bypass
35522	Bypass graft, with vein; axillary-brachial	Arterial bypass
35518	Bypass graft, with vein; axillary-axillary	Arterial bypass
35621	Bypass graft, with other than vein; axillary-femoral	Arterial bypass
35533	Bypass graft, with vein; axillary-femoral-femoral	Arterial bypass
35521	Bypass graft, with vein; axillary-femoral	Arterial bypass
35523	Bypass graft, with vein; brachial-ulnar or -radial	Arterial bypass
35525	Bypass graft, with vein; brachial-brachial	Arterial bypass
35506	Bypass graft, with vein; carotid-subclavian or subclavian-carotid	Arterial bypass
35501	Bypass graft, with vein; common carotid-ipsilateral internal carotid	Arterial bypass
35606	Bypass graft, with other than vein; carotid-subclavian	Arterial bypass
35510	Bypass graft, with vein; carotid-brachial	Arterial bypass
35601	Bypass graft, with other than vein; common carotid-ipsilateral internal carotid	Arterial bypass
35509	Bypass graft, with vein; carotid-contralateral carotid	Arterial bypass
35508	Bypass graft, with vein; carotid-vertebral	Arterial bypass
35571	Bypass graft, with vein; popliteal-tibial, -peroneal artery or other distal vessels	Arterial bypass
35570	Bypass graft, with vein; tibial-tibial, peroneal-tibial, or tibial/peroneal trunk- tibial	Arterial bypass
35587	In-situ vein bypass; popliteal-tibial, peroneal	Arterial bypass
61711	Anastomosis, arterial, extracranial-intracranial (eg, middle cerebral/cortical) arteries	Arterial bypass
35556	Bypass graft, with vein; femoral-popliteal	Arterial bypass
35585	In-situ vein bypass; femoral-anterior tibial, posterior tibial, or peroneal artery	Arterial bypass

Continued		
Code	Code description	Procedure type
35583	In-situ vein bypass; femoral-popliteal	Arterial bypass
35566	Bypass graft, with vein; femoral-anterior tibial, posterior tibial, peroneal artery or other distal vessels	Arterial bypass
35558	Bypass graft, with vein; femoral-femoral	Arterial bypass
35563	Bypass graft, with vein; ilioiliac	Arterial bypass
35565	Bypass graft, with vein; iliofemoral	Arterial bypass
35536	Bypass graft, with vein; splenorenal	Arterial bypass
35516	Bypass graft, with vein; subclavian-axillary	Arterial bypass
35515	Bypass graft, with vein; subclavian-vertebral	Arterial bypass
35616	Bypass graft, with other than vein; subclavian-axillary	Arterial bypass
35612	Bypass graft, with other than vein; subclavian-subclavian	Arterial bypass
35512	Bypass graft, with vein; subclavian-brachial	Arterial bypass
35511	Bypass graft, with vein; subclavian-subclavian	Arterial bypass
35516	Bypass graft, with vein; subclavian-axillary	Arterial bypass
35515	Bypass graft, with vein; subclavian-vertebral	Arterial bypass
35616	Bypass graft, with other than vein; subclavian-axillary	Arterial bypass
35612	Bypass graft, with other than vein; subclavian-subclavian	Arterial bypass
35512	Bypass graft, with vein; subclavian-brachial	Arterial bypass
35511	Bypass graft, with vein; subclavian-subclavian	Arterial bypass
35535	Bypass graft, with vein; hepatorenal	Arterial bypass
35695	Transposition and/or reimplantation; carotid to subclavian artery	Arterial transposition
35694	Transposition and/or reimplantation; subclavian to carotid artery	Arterial transposition
35691	Transposition and/or reimplantation; vertebral to carotid artery	Arterial transposition
35693	Transposition and/or reimplantation; vertebral to subclavian artery	Arterial transposition
36818	Arteriovenous anastomosis - open; by upper arm cephalic vein transposition	Arteriovenous fistula creation or reconstruction
36825	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); autogenous graft	Arteriovenous fistula creation or reconstruction
36830	Creation of arteriovenous fistula by other than direct arteriovenous anastomosis (separate procedure); nonautogenous graft (eg, biological collagen, thermoplastic graft)	Arteriovenous fistula creation or reconstruction
36820	Arteriovenous anastomosis - open; by forearm vein transposition	Arteriovenous fistula creation or reconstruction
36819	Arteriovenous anastomosis - open; by upper arm basilic vein transposition	Arteriovenous fistula creation or reconstruction
36821	Arteriovenous anastomosis - open; direct, any site (eg, Cimino type) (separate procedure)	Arteriovenous fistula creation or reconstruction
36838	Distal revascularization and interval ligation (DRIL), upper extremity hemodialysis access (steal syndrome)	Arteriovenous fistula creation or reconstruction
28737	Arthrodesis, with tendon lengthening and advancement, midtarsal, tarsal navicular-cuneiform (eg, Miller type procedure)	Arthrodesis of lower extremity
28725	Arthrodesis; subtalar	Arthrodesis of lower extremity
28750	Arthrodesis, great toe; metatarsophalangeal joint	Arthrodesis of lower extremity
28755	Arthrodesis, great toe; interphalangeal joint	Arthrodesis of lower extremity
28740	Arthrodesis, midtarsal or tarsometatarsal, single joint	Arthrodesis of lower extremity
28730	Arthrodesis, midtarsal or tarsometatarsal, multiple or transverse;	Arthrodesis of lower extremity
28760	Arthrodesis, with extensor hallucis longus transfer to first metatarsal neck, great toe, interphalangeal joint (eg, Jones type procedure)	Arthrodesis of lower extremity
28735	Arthrodesis, midtarsal or tarsometatarsal, multiple or transverse; with osteotomy (eg, flatfoot correction)	Arthrodesis of lower extremity
28705	Arthrodesis; pantalar	Arthrodesis of lower extremity
28715	Arthrodesis; triple	Arthrodesis of lower extremity
27580	Arthrodesis, knee, any technique	Arthrodesis of lower extremity
27871	Arthrodesis, tibiofibular joint, proximal or distal	Arthrodesis of lower extremity
27870	Arthrodesis, ankle - open	Arthrodesis of lower extremity
27286	Arthrodesis, hip joint (including obtaining graft); with subtrochanteric osteotomy	Arthrodesis of lower extremity

Continued		
Code	Code description	Procedure type
27279	Arthrodesis, sacroiliac joint, percutaneous or minimally invasive (indirect visualization), with image guidance, includes obtaining bone graft when performed, and placement of transfixing device	Arthrodesis of lower extremity
27280	Arthrodesis, sacroiliac joint (including obtaining graft)	Arthrodesis of lower extremity
27284	Arthrodesis, hip joint (including obtaining graft);	Arthrodesis of lower extremity
27282	Arthrodesis, symphysis pubis (including obtaining graft)	Arthrodesis of lower extremity
22808	Arthrodesis, anterior, for spinal deformity, with or without cast; 2 to 3 vertebral segments	Arthrodesis of spine
22586	Arthrodesis, pre-sacral interbody technique, including disc space preparation, discectomy, with posterior instrumentation, with image guidance, includes bone graft when performed, L5-S1 interspace	Arthrodesis of spine
22595	Arthrodesis, posterior technique, atlas-axis (C1-C2)	Arthrodesis of spine
22800	Arthrodesis, posterior, for spinal deformity, with or without cast; up to 6 vertebral segments	Arthrodesis of spine
22610	Arthrodesis, posterior or posterolateral technique, single level; thoracic (with lateral transverse technique, when performed)	Arthrodesis of spine
22551	Arthrodesis, anterior interbody, including disc space preparation, discectomy, osteophyctectomy and decompression of spinal cord and/or nerve roots; cervical below C2	Arthrodesis of spine
22804	Arthrodesis, posterior, for spinal deformity, with or without cast; 13 or more vertebral segments	Arthrodesis of spine
22630	Arthrodesis, posterior interbody technique, including laminectomy and/or discectomy to prepare interspace (other than for decompression), single interspace; lumbar	Arthrodesis of spine
22633	Arthrodesis, combined posterior or posterolateral technique with posterior interbody technique including laminectomy and/or discectomy sufficient to prepare interspace (other than for decompression), single interspace and segment; lumbar	Arthrodesis of spine
22802	Arthrodesis, posterior, for spinal deformity, with or without cast; 7 to 12 vertebral segments	Arthrodesis of spine
22590	Arthrodesis, posterior technique, craniocervical (occiput-C2)	Arthrodesis of spine
22810	Arthrodesis, anterior, for spinal deformity, with or without cast; 4 to 7 vertebral segments	Arthrodesis of spine
22600	Arthrodesis, posterior or posterolateral technique, single level; cervical below C2 segment	Arthrodesis of spine
22812	Arthrodesis, anterior, for spinal deformity, with or without cast; 8 or more vertebral segments	Arthrodesis of spine
22612	Arthrodesis, posterior or posterolateral technique, single level; lumbar (with lateral transverse technique, when performed)	Arthrodesis of spine
22558	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar	Arthrodesis of spine
22533	Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); lumbar	Arthrodesis of spine
22548	Arthrodesis, anterior transoral or extraoral technique, clivus-C1-C2 (atlas- axis), with or without excision of odontoid process	Arthrodesis of spine
22554	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); cervical below C2	Arthrodesis of spine
22532	Arthrodesis, lateral extracavitary technique, including minimal discectomy to prepare interspace (other than for decompression); thoracic	Arthrodesis of spine
22556	Arthrodesis, anterior interbody technique, including minimal discectomy to prepare interspace (other than for decompression); thoracic	Arthrodesis of spine
24802	Arthrodesis, elbow joint; with autogenous graft (includes obtaining graft)	Arthrodesis of upper extremity
24800	Arthrodesis, elbow joint; local	Arthrodesis of upper extremity
26820	Fusion in opposition, thumb, with autogenous graft (includes obtaining graft)	Arthrodesis of upper extremity
26850	Arthrodesis, metacarpophalangeal joint, with or without internal fixation;	Arthrodesis of upper extremity
26862	Arthrodesis, interphalangeal joint, with or without internal fixation; with autograft (includes obtaining graft)	Arthrodesis of upper extremity
26844	Arthrodesis, carpometacarpal joint, digit, other than thumb, each; with autograft (includes obtaining graft)	Arthrodesis of upper extremity
26860	Arthrodesis, interphalangeal joint, with or without internal fixation;	Arthrodesis of upper extremity
26843	Arthrodesis, carpometacarpal joint, digit, other than thumb, each;	Arthrodesis of upper extremity
26842	Arthrodesis, carpometacarpal joint, thumb, with or without internal fixation; with autograft (includes obtaining graft)	Arthrodesis of upper extremity
26841	Arthrodesis, carpometacarpal joint, thumb, with or without internal fixation;	Arthrodesis of upper extremity

Continued		
Code	Code description	Procedure type
26852	Arthrodesis, metacarpophalangeal joint, with or without internal fixation; with autograft (includes obtaining graft)	Arthrodesis of upper extremity
23802	Arthrodesis, glenohumeral joint; with autogenous graft (includes obtaining graft)	Arthrodesis of upper extremity
23800	Arthrodesis, glenohumeral joint;	Arthrodesis of upper extremity
25820	Arthrodesis, wrist; limited, without bone graft (eg, intercarpal or radiocarpal)	Arthrodesis of upper extremity
25805	Arthrodesis, wrist; with sliding graft	Arthrodesis of upper extremity
25800	Arthrodesis, wrist; complete, without bone graft (includes radiocarpal and/or intercarpal and/or carpometacarpal joints)	Arthrodesis of upper extremity
25810	Arthrodesis, wrist; with iliac or other autograft (includes obtaining graft)	Arthrodesis of upper extremity
25825	Arthrodesis, wrist; with autograft (includes obtaining graft)	Arthrodesis of upper extremity
25830	Arthrodesis, distal radioulnar joint with segmental resection of ulna, with or without bone graft (eg, Sauve-Kapandji procedure)	Arthrodesis of upper extremity
27703	Arthroplasty, ankle; revision, total ankle	Arthroplasty of ankle
27700	Arthroplasty, ankle;	Arthroplasty of ankle
27702	Arthroplasty, ankle; with implant (total ankle)	Arthroplasty of ankle
24362	Arthroplasty, elbow; with implant and fascia lata ligament reconstruction	Arthroplasty of elbow
24366	Arthroplasty, radial head; with implant	Arthroplasty of elbow
24361	Arthroplasty, elbow; with distal humeral prosthetic replacement	Arthroplasty of elbow
24363	Arthroplasty, elbow; with distal humerus and proximal ulnar prosthetic replacement (eg, total elbow)	Arthroplasty of elbow
24360	Arthroplasty, elbow; with membrane (eg, fascial)	Arthroplasty of elbow
24365	Arthroplasty, radial head;	Arthroplasty of elbow
26536	Arthroplasty, interphalangeal joint; with prosthetic implant, each joint	Arthroplasty of forearm or hand
26531	Arthroplasty, metacarpophalangeal joint; with prosthetic implant, each joint	Arthroplasty of forearm or hand
26535	Arthroplasty, interphalangeal joint; each joint	Arthroplasty of forearm or hand
26530	Arthroplasty, metacarpophalangeal joint; each joint	Arthroplasty of forearm or hand
25447	Arthroplasty, interposition, intercarpal or carpometacarpal joints	Arthroplasty of forearm or hand
25446	Arthroplasty with prosthetic replacement; distal radius and partial or entire carpus (total wrist)	Arthroplasty of forearm or hand
25443	Arthroplasty with prosthetic replacement; scaphoid carpal (navicular)	Arthroplasty of forearm or hand
25444	Arthroplasty with prosthetic replacement; lunate	Arthroplasty of forearm or hand
25441	Arthroplasty with prosthetic replacement; distal radius	Arthroplasty of forearm or hand
25332	Arthroplasty, wrist, with or without interposition, with or without external or internal fixation	Arthroplasty of forearm or hand
25442	Arthroplasty with prosthetic replacement; distal ulna	Arthroplasty of forearm or hand
25445	Arthroplasty with prosthetic replacement; trapezium	Arthroplasty of forearm or hand
27132	Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allograft	Arthroplasty of hip
27137	Revision of total hip arthroplasty; acetabular component only, with or without autograft or allograft	Arthroplasty of hip
27138	Revision of total hip arthroplasty; femoral component only, with or without allograft	Arthroplasty of hip
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	Arthroplasty of hip
27134	Revision of total hip arthroplasty; both components, with or without autograft or allograft	Arthroplasty of hip
27125	Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)	Arthroplasty of hip
27445	Arthroplasty, knee, hinge prosthesis (eg, Walldius type)	Arthroplasty of knee
27446	Arthroplasty, knee, condyle and plateau; medial OR lateral compartment	Arthroplasty of knee
27447	Arthroplasty, knee, condyle and plateau; medial AND lateral compartments with or without patella resurfacing (total knee arthroplasty)	Arthroplasty of knee
27486	Revision of total knee arthroplasty, with or without allograft; 1 component	Arthroplasty of knee
27442	Arthroplasty, femoral condyles or tibial plateau(s), knee;	Arthroplasty of knee
27438	Arthroplasty, patella; with prosthesis	Arthroplasty of knee
27440	Arthroplasty, knee, tibial plateau;	Arthroplasty of knee
27441	Arthroplasty, knee, tibial plateau; with debridement and partial synovectomy	Arthroplasty of knee
27437	Arthroplasty, patella; without prosthesis	Arthroplasty of knee

Continued		
Code	Code description	Procedure type
27487	Revision of total knee arthroplasty, with or without allograft; femoral and entire tibial component	Arthroplasty of knee
27443	Arthroplasty, femoral condyles or tibial plateau(s), knee; with debridement and partial synovectomy	Arthroplasty of knee
23470	Arthroplasty, glenohumeral joint; hemiarthroplasty	Arthroplasty of shoulder
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement [eg, total shoulder])	Arthroplasty of shoulder
22862	Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; lumbar	Arthroplasty of spine
22857	Total disc arthroplasty (artificial disc), anterior approach, including discectomy to prepare interspace (other than for decompression), single interspace, lumbar	Arthroplasty of spine
22861	Revision including replacement of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical	Arthroplasty of spine
22856	Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophylectomy for nerve root or spinal cord decompression and microdissection), single interspace, cervical	Arthroplasty of spine
21240	Arthroplasty, temporomandibular joint, with or without autograft (includes obtaining graft)	Arthroplasty of temporomandibular joint
21243	Arthroplasty, temporomandibular joint, with prosthetic joint replacement	Arthroplasty of temporomandibular joint
21242	Arthroplasty, temporomandibular joint, with allograft	Arthroplasty of temporomandibular joint
29891	Arthroscopy, ankle, surgical, excision of osteochondral defect of talus and/or tibia, including drilling of the defect	Arthroscopy of ankle or foot
29899	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical; with ankle arthrodesis	Arthroscopy of ankle or foot
29898	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical; debridement, extensive	Arthroscopy of ankle or foot
29895	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical; synovectomy, partial	Arthroscopy of ankle or foot
29892	Arthroscopically aided repair of large osteochondritis dissecans lesion, talar dome fracture, or tibial plafond fracture, with or without internal fixation (includes arthroscopy)	Arthroscopy of ankle or foot
29894	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical; with removal of loose body or foreign body	Arthroscopy of ankle or foot
29897	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical; debridement, limited	Arthroscopy of ankle or foot
29907	Arthroscopy, subtalar joint, surgical; with subtalar arthrodesis	Arthroscopy of ankle or foot
29906	Arthroscopy, subtalar joint, surgical; with debridement	Arthroscopy of ankle or foot
29905	Arthroscopy, subtalar joint, surgical; with synovectomy	Arthroscopy of ankle or foot
29904	Arthroscopy, subtalar joint, surgical; with removal of loose body or foreign body	Arthroscopy of ankle or foot
29835	Arthroscopy, elbow, surgical; synovectomy, partial	Arthroscopy of elbow
29838	Arthroscopy, elbow, surgical; debridement, extensive	Arthroscopy of elbow
29837	Arthroscopy, elbow, surgical; debridement, limited	Arthroscopy of elbow
29834	Arthroscopy, elbow, surgical; with removal of loose body or foreign body	Arthroscopy of elbow
29836	Arthroscopy, elbow, surgical; synovectomy, complete	Arthroscopy of elbow
29901	Arthroscopy, metacarpophalangeal joint, surgical; with debridement	Arthroscopy of hand
29902	Arthroscopy, metacarpophalangeal joint, surgical; with reduction of displaced ulnar collateral ligament (eg, Stenar lesion)	Arthroscopy of hand
29914	Arthroscopy, hip, surgical; with femoroplasty (ie, treatment of cam lesion)	Arthroscopy of hip
29916	Arthroscopy, hip, surgical; with labral repair	Arthroscopy of hip
29915	Arthroscopy, hip, surgical; with acetabuloplasty (ie, treatment of pincer lesion)	Arthroscopy of hip
29863	Arthroscopy, hip, surgical; with synovectomy	Arthroscopy of hip
29862	Arthroscopy, hip, surgical; with debridement/shaving of articular cartilage (chondroplasty), abrasion arthroplasty, and/or resection of labrum	Arthroscopy of hip
29861	Arthroscopy, hip, surgical; with removal of loose body or foreign body	Arthroscopy of hip
29889	Arthroscopically aided posterior cruciate ligament repair/augmentation or reconstruction	Arthroscopy of knee
29887	Arthroscopy, knee, surgical; drilling for intact osteochondritis dissecans lesion with internal fixation	Arthroscopy of knee
29855	Arthroscopically aided treatment of tibial fracture, proximal (plateau); unicondylar; includes internal fixation, when performed (includes arthroscopy)	Arthroscopy of knee
29882	Arthroscopy, knee, surgical; with meniscus repair (medial OR lateral)	Arthroscopy of knee
29883	Arthroscopy, knee, surgical; with meniscus repair (medial AND lateral)	Arthroscopy of knee

Continued		
Code	Code description	Procedure type
29885	Arthroscopy, knee, surgical; drilling for osteochondritis dissecans with bone grafting, with or without internal fixation (including debridement of base of lesion)	Arthroscopy of knee
29888	Arthroscopically aided anterior cruciate ligament repair/augmentation or reconstruction	Arthroscopy of knee
29868	Arthroscopy, knee, surgical; meniscal transplantation (includes arthrotomy for meniscal insertion), medial or lateral	Arthroscopy of knee
29873	Arthroscopy, knee, surgical; with lateral release	Arthroscopy of knee
29856	Arthroscopically aided treatment of tibial fracture, proximal (plateau); bicondylar, includes internal fixation, when performed (includes arthroscopy)	Arthroscopy of knee
29867	Arthroscopy, knee, surgical; osteochondral allograft (eg, mosaicplasty)	Arthroscopy of knee
29851	Arthroscopically aided treatment of intercondylar spine(s) and/or tuberosity fracture(s) of the knee, with or without manipulation; with internal or external fixation (includes arthroscopy)	Arthroscopy of knee
29886	Arthroscopy, knee, surgical; drilling for intact osteochondritis dissecans lesion	Arthroscopy of knee
29884	Arthroscopy, knee, surgical; with lysis of adhesions, with or without manipulation (separate procedure)	Arthroscopy of knee
29877	Arthroscopy, knee, surgical; debridement/shaving of articular cartilage (chondroplasty)	Arthroscopy of knee
29880	Arthroscopy, knee, surgical; with meniscectomy (medial AND lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed	Arthroscopy of knee
29879	Arthroscopy, knee, surgical; abrasion arthroplasty (includes chondroplasty where necessary) or multiple drilling or microfracture	Arthroscopy of knee
29874	Arthroscopy, knee, surgical; for removal of loose body or foreign body (eg, osteochondritis dissecans fragmentation, chondral fragmentation)	Arthroscopy of knee
29875	Arthroscopy, knee, surgical; synovectomy, limited (eg, plica or shelf resection) (separate procedure)	Arthroscopy of knee
29876	Arthroscopy, knee, surgical; synovectomy, major, 2 or more compartments (eg, medial or lateral)	Arthroscopy of knee
29866	Arthroscopy, knee, surgical; osteochondral autograft(s) (eg, mosaicplasty) (includes harvesting of the autograft[s])	Arthroscopy of knee
29881	Arthroscopy, knee, surgical; with meniscectomy (medial OR lateral, including any meniscal shaving) including debridement/shaving of articular cartilage (chondroplasty), same or separate compartment(s), when performed	Arthroscopy of knee
29828	Arthroscopy, shoulder, surgical; biceps tenodesis	Arthroscopy of shoulder
29827	Arthroscopy, shoulder, surgical; with rotator cuff repair	Arthroscopy of shoulder
29807	Arthroscopy, shoulder, surgical; repair of SLAP lesion	Arthroscopy of shoulder
29824	Arthroscopy, shoulder, surgical; distal claviclectomy including distal articular surface (Mumford procedure)	Arthroscopy of shoulder
29806	Arthroscopy, shoulder, surgical; capsulorrhaphy	Arthroscopy of shoulder
29825	Arthroscopy, shoulder, surgical; with lysis and resection of adhesions, with or without manipulation	Arthroscopy of shoulder
29822	Arthroscopy, shoulder, surgical; debridement, limited	Arthroscopy of shoulder
29819	Arthroscopy, shoulder, surgical; with removal of loose body or foreign body	Arthroscopy of shoulder
29820	Arthroscopy, shoulder, surgical; synovectomy, partial	Arthroscopy of shoulder
29821	Arthroscopy, shoulder, surgical; synovectomy, complete	Arthroscopy of shoulder
29823	Arthroscopy, shoulder, surgical; debridement, extensive	Arthroscopy of shoulder
29847	Arthroscopy, wrist, surgical; internal fixation for fracture or instability	Arthroscopy of wrist
29846	Arthroscopy, wrist, surgical; excision and/or repair of triangular fibrocartilage and/or joint debridement	Arthroscopy of wrist
29844	Arthroscopy, wrist, surgical; synovectomy, partial	Arthroscopy of wrist
29845	Arthroscopy, wrist, surgical; synovectomy, complete	Arthroscopy of wrist
27054	Arthrotomy with synovectomy, hip joint	Arthrotomy of lower extremity
27033	Arthrotomy, hip, including exploration or removal of loose or foreign body	Arthrotomy of lower extremity
27030	Arthrotomy, hip, with drainage (eg, infection)	Arthrotomy of lower extremity
27403	Arthrotomy with meniscus repair, knee	Arthrotomy of lower extremity
27612	Arthrotomy, posterior capsular release, ankle, with or without Achilles tendon lengthening	Arthrotomy of lower extremity
27626	Arthrotomy, with synovectomy, ankle; including tenosynovectomy	Arthrotomy of lower extremity
27620	Arthrotomy, ankle, with joint exploration, with or without biopsy, with or without removal of loose or foreign body	Arthrotomy of lower extremity

Continued		
Code	Code description	Procedure type
27625	Arthrotomy, with synovectomy, ankle;	Arthrotomy of lower extremity
27610	Arthrotomy, ankle, including exploration, drainage, or removal of foreign body	Arthrotomy of lower extremity
28024	Arthrotomy, including exploration, drainage, or removal of loose or foreign body; interphalangeal joint	Arthrotomy of lower extremity
28020	Arthrotomy, including exploration, drainage, or removal of loose or foreign body; intertarsal or tarsometatarsal joint	Arthrotomy of lower extremity
28022	Arthrotomy, including exploration, drainage, or removal of loose or foreign body; metatarsophalangeal joint	Arthrotomy of lower extremity
27335	Arthrotomy, with synovectomy, knee; anterior AND posterior including popliteal area	Arthrotomy of lower extremity
27333	Arthrotomy, with excision of semilunar cartilage (meniscectomy) knee; medial AND lateral	Arthrotomy of lower extremity
27310	Arthrotomy, knee, with exploration, drainage, or removal of foreign body (eg, infection)	Arthrotomy of lower extremity
27334	Arthrotomy, with synovectomy, knee; anterior OR posterior	Arthrotomy of lower extremity
27331	Arthrotomy, knee; including joint exploration, biopsy, or removal of loose or foreign bodies	Arthrotomy of lower extremity
27332	Arthrotomy, with excision of semilunar cartilage (meniscectomy) knee; medial OR lateral	Arthrotomy of lower extremity
21010	Arthrotomy, temporomandibular joint	Arthrotomy of temporomandibular joint
25107	Arthrotomy, distal radioulnar joint including repair of triangular cartilage, complex	Arthrotomy of upper extremity
24006	Arthrotomy of the elbow, with capsular excision for capsular release (separate procedure)	Arthrotomy of upper extremity
24102	Arthrotomy, elbow; with synovectomy	Arthrotomy of upper extremity
24101	Arthrotomy, elbow; with joint exploration, with or without biopsy, with or without removal of loose or foreign body	Arthrotomy of upper extremity
24000	Arthrotomy, elbow, including exploration, drainage, or removal of foreign body	Arthrotomy of upper extremity
26075	Arthrotomy, with exploration, drainage, or removal of loose or foreign body; metacarpophalangeal joint, each	Arthrotomy of upper extremity
26080	Arthrotomy, with exploration, drainage, or removal of loose or foreign body; interphalangeal joint, each	Arthrotomy of upper extremity
26070	Arthrotomy, with exploration, drainage, or removal of loose or foreign body; carpometacarpal joint	Arthrotomy of upper extremity
23040	Arthrotomy, glenohumeral joint, including exploration, drainage, or removal of foreign body	Arthrotomy of upper extremity
23107	Arthrotomy, glenohumeral joint, with joint exploration, with or without removal of loose or foreign body	Arthrotomy of upper extremity
23105	Arthrotomy; glenohumeral joint, with synovectomy, with or without biopsy	Arthrotomy of upper extremity
23101	Arthrotomy, acromioclavicular joint or sternoclavicular joint, including biopsy and/or excision of torn cartilage	Arthrotomy of upper extremity
23106	Arthrotomy; sternoclavicular joint, with synovectomy, with or without biopsy	Arthrotomy of upper extremity
23044	Arthrotomy, acromioclavicular, sternoclavicular joint, including exploration, drainage, or removal of foreign body	Arthrotomy of upper extremity
25105	Arthrotomy, wrist joint; with synovectomy	Arthrotomy of upper extremity
25040	Arthrotomy, radiocarpal or midcarpal joint, with exploration, drainage, or removal of foreign body	Arthrotomy of upper extremity
25101	Arthrotomy, wrist joint; with joint exploration, with or without biopsy, with or without removal of loose or foreign body	Arthrotomy of upper extremity
67015	Aspiration or release of vitreous, subretinal or choroidal fluid, pars plana approach (posterior sclerotomy)	Aspiration or release of vitreous, subretinal or choroidal fluid, pars plana approach
92993	Atrial septectomy or septostomy; blade method (Park septostomy) (includes cardiac catheterization)	Atrial septectomy or septostomy
33735	Atrial septectomy or septostomy; closed heart (Blalock-Hanlon type operation)	Atrial septectomy or septostomy
33736	Atrial septectomy or septostomy; open heart with cardiopulmonary bypass	Atrial septectomy or septostomy
33737	Atrial septectomy or septostomy; open heart, with inflow occlusion	Atrial septectomy or septostomy
92992	Atrial septectomy or septostomy; transvenous method, balloon (eg, Rashkind type) (includes cardiac catheterization)	Atrial septectomy or septostomy
33741	Transcatheter atrial septostomy (TAS) for congenital cardiac anomalies to create effective atrial flow, including all imaging guidance by the proceduralist, when performed, any method (eg, Rashkind, Sang-Park, balloon, cutting balloon, blade)	Atrial septectomy or septostomy
21127	Augmentation, mandibular body or angle; with bone graft, onlay or interpositional (includes obtaining autograft)	Augmentation of mandibular body or angle
21125	Augmentation, mandibular body or angle; prosthetic material	Augmentation of mandibular body or angle

Continued		
Code	Code description	Procedure type
27412	Autologous chondrocyte implantation, knee	Autologous chondrocyte implantation, knee
33690	Banding of pulmonary artery	Banding of pulmonary artery
23430	Tenodesis of long tendon of biceps	Biceps tenodesis or reconstruction
24340	Tenodesis of biceps tendon at elbow (separate procedure)	Biceps tenodesis or reconstruction
24342	Reinsertion of ruptured biceps or triceps tendon, distal, with or without tendon graft	Biceps tenodesis or reconstruction
47570	Laparoscopy, surgical; cholecystoenterostomy	Biliary reconstruction - laparoscopic
64870	Anastomosis; facial-phrenic	Biliary reconstruction - open
64868	Anastomosis; facial-hypoglossal	Biliary reconstruction - open
47785	Anastomosis, Roux-en-Y, of intrahepatic biliary ducts and gastrointestinal tract	Biliary reconstruction - open
47780	Anastomosis, Roux-en-Y, of extrahepatic biliary ducts and gastrointestinal tract	Biliary reconstruction - open
47765	Anastomosis, of intrahepatic ducts and gastrointestinal tract	Biliary reconstruction - open
47760	Anastomosis, of extrahepatic biliary ducts and gastrointestinal tract	Biliary reconstruction - open
47741	Cholecystoenterostomy; Roux-en-Y with gastroenterostomy	Biliary reconstruction - open
47740	Cholecystoenterostomy; Roux-en-Y	Biliary reconstruction - open
47721	Cholecystoenterostomy; with gastroenterostomy	Biliary reconstruction - open
47425	Choledochotomy or choledochostomy with exploration, drainage, or removal of calculus, with or without cholecystotomy; with transduodenal sphincterotomy or sphincteroplasty	Biliary reconstruction - open
47420	Choledochotomy or choledochostomy with exploration, drainage, or removal of calculus, with or without cholecystotomy; without transduodenal sphincterotomy or sphincteroplasty	Biliary reconstruction - open
47720	Cholecystoenterostomy; direct	Biliary reconstruction - open
38525	Biopsy or excision of lymph node(s); open, deep axillary node(s)	Biopsy or excision of lymph node(s)
38520	Biopsy or excision of lymph node(s); open, deep cervical node(s) with excision scalene fat pad	Biopsy or excision of lymph node(s)
38510	Biopsy or excision of lymph node(s); open, deep cervical node(s)	Biopsy or excision of lymph node(s)
38531	Biopsy or excision of lymph node(s); open, inguinofemoral node(s)	Biopsy or excision of lymph node(s)
20934	Allograft, includes templating, cutting, placement and internal fixation, when performed; intercalary, complete (ie, cylindrical) (List separately in addition to code for primary procedure)	Bone graft procedure
20932	Allograft, includes templating, cutting, placement and internal fixation, when performed; osteoarticular, including articular surface and contiguous bone (List separately in addition to code for primary procedure)	Bone graft procedure
20902	Bone graft, any donor area; major or large	Bone graft procedure
20900	Bone graft, any donor area; minor or small (eg, dowel or button)	Bone graft procedure
27170	Bone graft, femoral head, neck, intertrochanteric or subtrochanteric area (includes obtaining bone graft)	Bone graft procedure
20933	Allograft, includes templating, cutting, placement and internal fixation, when performed; hemicortical intercalary, partial (ie, hemicylindrical) (List separately in addition to code for primary procedure)	Bone graft procedure
25426	Repair of defect with autograft; radius AND ulna	Bone graft procedure
25425	Repair of defect with autograft; radius OR ulna	Bone graft procedure
23182	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), scapula	Bone resection
23180	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), clavicle	Bone resection
27070	Partial excision, wing of ilium, symphysis pubis, or greater trochanter of femur, (craterization, saucerization) (eg, osteomyelitis or bone abscess); superficial	Bone resection
28122	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (eg, osteomyelitis or bossing); tarsal or metatarsal bone, except talus or calcaneus	Bone resection
28124	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (eg, osteomyelitis or bossing); phalanx of toe	Bone resection
28120	Partial excision (craterization, saucerization, sequestrectomy, or diaphysectomy) bone (eg, osteomyelitis or bossing); talus or calcaneus	Bone resection
27360	Partial excision (craterization, saucerization, or diaphysectomy) bone, femur, proximal tibia and/or fibula (eg, osteomyelitis or bone abscess)	Bone resection
27641	Partial excision (craterization, saucerization, or diaphysectomy), bone (eg, osteomyelitis); fibula	Bone resection
27640	Partial excision (craterization, saucerization, or diaphysectomy), bone (eg, osteomyelitis); tibia	Bone resection

Continued		
Code	Code description	Procedure type
26236	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis); distal phalanx of finger	Bone resection
26235	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis); proximal or middle phalanx of finger	Bone resection
27071	Partial excision, wing of ilium, symphysis pubis, or greater trochanter of femur, (craterization, saucerization) (eg, osteomyelitis or bone abscess); deep (subfascial or intramuscular)	Bone resection
26230	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis); metacarpal	Bone resection
25151	Partial excision (craterization, saucerization, or diaphysectomy) of bone (eg, for osteomyelitis); radius	Bone resection
25150	Partial excision (craterization, saucerization, or diaphysectomy) of bone (eg, for osteomyelitis); ulna	Bone resection
24147	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), olecranon process	Bone resection
24145	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), radial head or neck	Bone resection
24140	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), humerus	Bone resection
23184	Partial excision (craterization, saucerization, or diaphysectomy) bone (eg, osteomyelitis), proximal humerus	Bone resection
19340	Immediate insertion of breast prosthesis following mastopexy, mastectomy or in reconstruction	Breast implant
19342	Delayed insertion of breast prosthesis following mastopexy, mastectomy or in reconstruction	Breast implant
19368	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), single pedicle, including closure of donor site; with microvascular anastomosis (supercharging)	Breast reconstruction
19364	Breast reconstruction with free flap	Breast reconstruction
19357	Breast reconstruction, immediate or delayed, with tissue expander, including subsequent expansion	Breast reconstruction
19366	Breast reconstruction with other technique	Breast reconstruction
19369	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), double pedicle, including closure of donor site	Breast reconstruction
19361	Breast reconstruction with latissimus dorsi flap, without prosthetic implant	Breast reconstruction
19367	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), single pedicle, including closure of donor site;	Breast reconstruction
31775	Bronchoplasty; excision stenosis and anastomosis	Bronchoplasty
31770	Bronchoplasty; graft repair	Bronchoplasty
61154	Burr hole(s) with evacuation and/or drainage of hematoma, extradural or subdural	Burr hole(s) or trephine
61253	Burr hole(s) or trephine, infratentorial, unilateral or bilateral	Burr hole(s) or trephine
61210	Burr hole(s); for implanting ventricular catheter, reservoir, EEG electrode(s), pressure recording device, or other cerebral monitoring device (separate procedure)	Burr hole(s) or trephine
61156	Burr hole(s); with aspiration of hematoma or cyst, intracerebral	Burr hole(s) or trephine
61250	Burr hole(s) or trephine, supratentorial, exploratory, not followed by other surgery	Burr hole(s) or trephine
61151	Burr hole(s) or trephine; with subsequent tapping (aspiration) of intracranial abscess or cyst	Burr hole(s) or trephine
61150	Burr hole(s) or trephine; with drainage of brain abscess or cyst	Burr hole(s) or trephine
61140	Burr hole(s) or trephine; with biopsy of brain or intracranial lesion	Burr hole(s) or trephine
61120	Burr hole(s) for ventricular puncture (including injection of gas, contrast media, dye, or radioactive material)	Burr hole(s) or trephine
35531	Bypass graft, with vein; aortoceliac or aortomesenteric	Bypass graft
35623	Bypass graft, with other than vein; axillary-popliteal or -tibial	Bypass graft
35666	Bypass graft, with other than vein; femoral-anterior tibial, posterior tibial, or peroneal artery	Bypass graft
35671	Bypass graft, with other than vein; popliteal-tibial or -peroneal artery	Bypass graft
35650	Bypass graft, with other than vein; axillary-axillary	Bypass graft
35626	Bypass graft, with other than vein; aortosubclavian, aortoinnominate, or aortocarotid	Bypass graft
35647	Bypass graft, with other than vein; aortofemoral	Bypass graft
35646	Bypass graft, with other than vein; aortobifemoral	Bypass graft
35638	Bypass graft, with other than vein; aortobi-iliac	Bypass graft

Continued		
Code	Code description	Procedure type
35637	Bypass graft, with other than vein; aortoiliac	Bypass graft
35642	Bypass graft, with other than vein; carotid-vertebral	Bypass graft
33891	Bypass graft, with other than vein, transcervical retropharyngeal carotid- carotid, performed in conjunction with endovascular repair of descending thoracic aorta, by neck incision	Bypass graft
33889	Open subclavian to carotid artery transposition performed in conjunction with endovascular repair of descending thoracic aorta, by neck incision, unilateral	Bypass graft
35665	Bypass graft, with other than vein; iliofemoral	Bypass graft
35663	Bypass graft, with other than vein; ilioiliac	Bypass graft
35656	Bypass graft, with other than vein; femoral-popliteal	Bypass graft
35661	Bypass graft, with other than vein; femoral-femoral	Bypass graft
35654	Bypass graft, with other than vein; axillary-femoral-femoral	Bypass graft
35633	Bypass graft, with other than vein; ilio-mesenteric	Bypass graft
35632	Bypass graft, with other than vein; ilio-celiac	Bypass graft
35631	Bypass graft, with other than vein; aortoceliac, aortomesenteric, aortorenal	Bypass graft
35634	Bypass graft, with other than vein; iliorenal	Bypass graft
35636	Bypass graft, with other than vein; splenorenal (splenic to renal arterial anastomosis)	Bypass graft
35645	Bypass graft, with other than vein; subclavian-vertebral	Bypass graft
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	CABG
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	CABG
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	CABG
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	CABG
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	CABG
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	CABG
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	CABG
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	CABG
33510	Coronary artery bypass, vein only; single coronary venous graft	CABG
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	CABG
21282	Lateral canthopexy	Canthopexy
21280	Medial canthopexy (separate procedure)	Canthopexy
67950	Canthoplasty (reconstruction of canthus)	Canthoplasty
26525	Capsulectomy or capsulotomy; interphalangeal joint, each joint	Capsulectomy or capsulotomy, hand
26520	Capsulectomy or capsulotomy; metacarpophalangeal joint, each joint	Capsulectomy or capsulotomy, hand
27036	Capsulectomy or capsulotomy, hip, with or without excision of heterotopic bone, with release of hip flexor muscles (ie, gluteus medius, gluteus minimus, tensor fascia latae, rectus femoris, sartorius, iliopsoas)	Capsulectomy or capsulotomy, hip
26518	Capsulodesis, metacarpophalangeal joint; 3 or 4 digits	Capsulodesis, metacarpophalangeal joint
26516	Capsulodesis, metacarpophalangeal joint; single digit	Capsulodesis, metacarpophalangeal joint
26517	Capsulodesis, metacarpophalangeal joint; 2 digits	Capsulodesis, metacarpophalangeal joint
25320	Capsulorrhaphy or reconstruction, wrist - open (eg, capsulodesis, ligament repair, tendon transfer or graft) (includes synovectomy, capsulotomy and open reduction) for carpal instability	Capsulorrhaphy or reconstruction, wrist
23466	Capsulorrhaphy, glenohumeral joint, any type multi-directional instability	Capsulorrhaphy, shoulder
23465	Capsulorrhaphy, glenohumeral joint, posterior, with or without bone block	Capsulorrhaphy, shoulder
23455	Capsulorrhaphy, anterior; with labral repair (eg, Bankart procedure)	Capsulorrhaphy, shoulder
23462	Capsulorrhaphy, anterior, any type; with coracoid process transfer	Capsulorrhaphy, shoulder
23450	Capsulorrhaphy, anterior; Putti-Platt procedure or Magnuson type operation	Capsulorrhaphy, shoulder
23460	Capsulorrhaphy, anterior, any type; with bone block	Capsulorrhaphy, shoulder
28272	Capsulotomy; interphalangeal joint, each joint (separate procedure)	Capsulotomy, foot and/or toes
28270	Capsulotomy; metatarsophalangeal joint, with or without tenorrhaphy, each joint (separate procedure)	Capsulotomy, foot and/or toes
28262	Capsulotomy, midfoot; extensive, including posterior talotibial capsulotomy and tendon(s) lengthening (eg, resistant clubfoot deformity)	Capsulotomy, foot and/or toes
28261	Capsulotomy, midfoot; with tendon lengthening	Capsulotomy, foot and/or toes
28264	Capsulotomy, midtarsal (eg, Heyman type procedure)	Capsulotomy, foot and/or toes

Continued		
Code	Code description	Procedure type
28260	Capsulotomy, midfoot; medial release only (separate procedure)	Capsulotomy, foot and/or toes
27435	Capsulotomy, posterior capsular release, knee	Capsulotomy, posterior capsular release, knee
25085	Capsulotomy, wrist (eg, contracture)	Capsulotomy, wrist
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	Cardiac ablation
33999	Unlisted procedure, cardiac surgery	Cardiac procedure, unlisted
33310	Cardiotomy, exploratory (includes removal of foreign body, atrial or ventricular thrombus); without bypass	Cardiotomy, exploratory
33315	Cardiotomy, exploratory (includes removal of foreign body, atrial or ventricular thrombus); with cardiopulmonary bypass	Cardiotomy, exploratory
31766	Carinal reconstruction	Carinal reconstruction
29848	Endoscopy, wrist, surgical, with release of transverse carpal ligament	Carpal tunnel release, endoscopic
25215	Carpectomy; all bones of proximal row	Carpectomy
25210	Carpectomy; 1 bone	Carpectomy
20910	Cartilage graft; costochondral	Cartilage graft
66830	Removal of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid) with corneo-scleral section, with or without iridectomy (iridocapsulotomy, iridocapsulectomy)	Cataract removal
66991	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification); with insertion of intraocular (eg, trabecular meshwork, supraciliary, suprachoroidal) anterior segment aqueous drainage device, without extraocular reservoir, internal approach, one or more	Cataract removal
66988	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification); with endoscopic cyclophotocoagulation	Cataract removal
66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification)	Cataract removal
66983	Intracapsular cataract extraction with insertion of intraocular lens prosthesis (1 stage procedure)	Cataract removal
66987	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage; with endoscopic cyclophotocoagulation	Cataract removal
66989	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage; with insertion of intraocular (eg, trabecular meshwork, supraciliary, suprachoroidal) anterior segment aqueous drainage device, without extraocular reservoir, internal approach, one or more	Cataract removal
66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage	Cataract removal
25335	Centralization of wrist on ulna (eg, radial club hand)	Centralization of wrist on ulna
59325	Cerclage of cervix, during pregnancy; abdominal	Cerclage of cervix, during pregnancy
59320	Cerclage of cervix, during pregnancy; vaginal	Cerclage of cervix, during pregnancy
15819	Cervicoplasty	Cervicoplasty

Continued		
Code	Code description	Procedure type
59620	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery;	Cesarean section
59618	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care, following attempted vaginal delivery after previous cesarean delivery	Cesarean section
59622	Cesarean delivery only, following attempted vaginal delivery after previous cesarean delivery; including postpartum care	Cesarean section
59514	Cesarean delivery only;	Cesarean section
59510	Routine obstetric care including antepartum care, cesarean delivery, and postpartum care	Cesarean section
59515	Cesarean delivery only; including postpartum care	Cesarean section
32810	Closure of chest wall following open flap drainage for empyema (Clagett type procedure)	Chest wall reconstruction
47564	Laparoscopy, surgical; cholecystectomy with exploration of common duct	Cholecystectomy - laparoscopic
47563	Laparoscopy, surgical; cholecystectomy with cholangiography	Cholecystectomy - laparoscopic
47562	Laparoscopy, surgical; cholecystectomy	Cholecystectomy - laparoscopic
47610	Cholecystectomy with exploration of common duct;	Cholecystectomy - open
47605	Cholecystectomy; with cholangiography	Cholecystectomy - open
47480	Cholecystotomy or cholecystostomy - open, with exploration, drainage, or removal of calculus (separate procedure)	Cholecystectomy - open
47600	Cholecystectomy;	Cholecystectomy - open
47620	Cholecystectomy with exploration of common duct; with transduodenal sphincterotomy or sphincteroplasty, with or without cholangiography	Cholecystectomy - open
47612	Cholecystectomy with exploration of common duct; with choledochenterostomy	Cholecystectomy - open
66720	Ciliary body destruction; cryotherapy	Ciliary body destruction
66711	Ciliary body destruction; cyclophotocoagulation, endoscopic	Ciliary body destruction
66700	Ciliary body destruction; diathermy	Ciliary body destruction
66710	Ciliary body destruction; cyclophotocoagulation, transscleral	Ciliary body destruction
66740	Ciliary body destruction; cyclodialysis	Ciliary body destruction
24940	Cineplasty, upper extremity, complete procedure	Cineplasty, upper extremity
23125	Claviculectomy; total	Claviculectomy
23120	Claviculectomy; partial	Claviculectomy
40761	Plastic repair of cleft lip/nasal deformity; with cross lip pedicle flap (Abbe- Estlander type), including sectioning and inserting of pedicle	Cleft lip repair
40720	Plastic repair of cleft lip/nasal deformity; secondary, by recreation of defect and reclosure	Cleft lip repair
40701	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1-stage procedure	Cleft lip repair
40702	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1 of 2 stages	Cleft lip repair
40700	Plastic repair of cleft lip/nasal deformity; primary, partial or complete, unilateral	Cleft lip repair
33722	Closure of aortico-left ventricular tunnel	Closure of aortico-left ventricular tunnel
51880	Closure of cystostomy (separate procedure)	Closure of cystostomy
44620	Closure of enterostomy, large or small intestine;	Closure of enterostomy
43420	Closure of esophagostomy or fistula; cervical approach	Closure of esophagostomy or fistula
43425	Closure of esophagostomy or fistula; transthoracic or transabdominal approach	Closure of esophagostomy or fistula
43880	Closure of gastrocolic fistula	Closure of gastrocolic fistula
44650	Closure of enteroenteric or enterocolic fistula	Closure of intestinal fistula
44660	Closure of enterovesical fistula; without intestinal or bladder resection	Closure of intestinal fistula
44640	Closure of intestinal cutaneous fistula	Closure of intestinal fistula
44661	Closure of enterovesical fistula; with intestine and/or bladder resection	Closure of intestinal fistula
68770	Closure of lacrimal fistula (separate procedure)	Closure of lacrimal fistula
32815	Open closure of major bronchial fistula	Closure of major bronchial fistula
50520	Closure of nephrocutaneous or pyelocutaneous fistula	Closure of nephrocutaneous or pyelocutaneous fistula
50526	Closure of nephrovisceral fistula (eg, renocolic), including visceral repair; thoracic approach	Closure of nephrovisceral fistula
50525	Closure of nephrovisceral fistula (eg, renocolic), including visceral repair; abdominal approach	Closure of nephrovisceral fistula
69700	Closure postauricular fistula, mastoid (separate procedure)	Closure of postauricular fistula, mastoid
57308	Closure of rectovaginal fistula; transperineal approach, with perineal body reconstruction, with or without levator plication	Closure of rectovesical fistula

Continued		
Code	Code description	Procedure type
57307	Closure of rectovaginal fistula; abdominal approach, with concomitant colostomy	Closure of rectovesical fistula
51900	Closure of vesicovaginal fistula, abdominal approach	Closure of rectovesical fistula
57305	Closure of rectovaginal fistula; abdominal approach	Closure of rectovesical fistula
45825	Closure of rectourethral fistula; with colostomy	Closure of rectovesical fistula
45820	Closure of rectourethral fistula;	Closure of rectovesical fistula
45805	Closure of rectovesical fistula; with colostomy	Closure of rectovesical fistula
45800	Closure of rectovesical fistula;	Closure of rectovesical fistula
42600	Closure salivary fistula	Closure of salivary fistula
68761	Closure of the lacrimal punctum; by plug, each	Closure of the lacrimal punctum
68760	Closure of the lacrimal punctum; by thermocauterization, ligation, or laser surgery	Closure of the lacrimal punctum
50930	Closure of ureterovisceral fistula (including visceral repair)	Closure of ureterocutaneous fistula
50920	Closure of ureterocutaneous fistula	Closure of ureterocutaneous fistula
53520	Closure of urethrostomy or urethrocutaneous fistula, male (separate procedure)	Closure of ureterocutaneous fistula
57320	Closure of vesicovaginal fistula; vaginal approach	Closure of vaginal fistula
57311	Closure of urethrovaginal fistula; with bulbo cavernosus transplant	Closure of vaginal fistula
57330	Closure of vesicovaginal fistula; transvesical and vaginal approach	Closure of vaginal fistula
57300	Closure of rectovaginal fistula; vaginal or transanal approach	Closure of vaginal fistula
57310	Closure of urethrovaginal fistula;	Closure of vaginal fistula
51925	Closure of vesicouterine fistula; with hysterectomy	Closure of vesicouterine fistula
51920	Closure of vesicouterine fistula;	Closure of vesicouterine fistula
51940	Closure, exstrophy of bladder	Closure, exstrophy of bladder
27080	Coccygectomy, primary	Coccygectomy, primary
69930	Cochlear device implantation, with or without mastoidectomy	Cochlear device implantation
44207	Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis)	Colectomy and/or proctectomy - laparoscopic
44204	Laparoscopy, surgical; colectomy, partial, with anastomosis	Colectomy and/or proctectomy - laparoscopic
44211	Laparoscopy, surgical; colectomy, total, abdominal, with proctectomy, with ileoanal anastomosis, creation of ileal reservoir (S or J), with loop ileostomy, includes rectal mucosectomy, when performed	Colectomy and/or proctectomy - laparoscopic
44212	Laparoscopy, surgical; colectomy, total, abdominal, with proctectomy, with ileostomy	Colectomy and/or proctectomy - laparoscopic
45397	Laparoscopy, surgical; proctectomy, combined abdominoperineal pull-through procedure (eg, colo-anal anastomosis), with creation of colonic reservoir (eg, J-pouch), with diverting enterostomy, when performed	Colectomy and/or proctectomy - laparoscopic
45395	Laparoscopy, surgical; proctectomy, complete, combined abdominoperineal, with colostomy	Colectomy and/or proctectomy - laparoscopic
44210	Laparoscopy, surgical; colectomy, total, abdominal, without proctectomy, with ileostomy or ileoproctostomy	Colectomy and/or proctectomy - laparoscopic
44208	Laparoscopy, surgical; colectomy, partial, with anastomosis, with coloproctostomy (low pelvic anastomosis) with colostomy	Colectomy and/or proctectomy - laparoscopic
44205	Laparoscopy, surgical; colectomy, partial, with removal of terminal ileum with ileocolostomy	Colectomy and/or proctectomy - laparoscopic
44206	Laparoscopy, surgical; colectomy, partial, with end colostomy and closure of distal segment (Hartmann type procedure)	Colectomy and/or proctectomy - laparoscopic
45110	Proctectomy; complete, combined abdominoperineal, with colostomy	Colectomy and/or proctectomy - open
44157	Colectomy, total, abdominal, with proctectomy; with ileoanal anastomosis, includes loop ileostomy, and rectal mucosectomy, when performed	Colectomy and/or proctectomy - open
44158	Colectomy, total, abdominal, with proctectomy; with ileoanal anastomosis, creation of ileal reservoir (S or J), includes loop ileostomy, and rectal mucosectomy, when performed	Colectomy and/or proctectomy - open
44160	Colectomy, partial, with removal of terminal ileum with ileocolostomy	Colectomy and/or proctectomy - open
44155	Colectomy, total, abdominal, with proctectomy; with ileostomy	Colectomy and/or proctectomy - open
44151	Colectomy, total, abdominal, without proctectomy; with continent ileostomy	Colectomy and/or proctectomy - open
44156	Colectomy, total, abdominal, with proctectomy; with continent ileostomy	Colectomy and/or proctectomy - open
44146	Colectomy, partial; with coloproctostomy (low pelvic anastomosis), with colostomy	Colectomy and/or proctectomy - open

Continued		
Code	Code description	Procedure type
44144	Colectomy, partial; with resection, with colostomy or ileostomy and creation of mucofistula	Colectomy and/or proctectomy - open
44143	Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure)	Colectomy and/or proctectomy - open
44141	Colectomy, partial; with skin level cecostomy or colostomy	Colectomy and/or proctectomy - open
44150	Colectomy, total, abdominal, without proctectomy; with ileostomy or ileoproctostomy	Colectomy and/or proctectomy - open
45121	Proctectomy, complete (for congenital megacolon), abdominal and perineal approach; with subtotal or total colectomy, with multiple biopsies	Colectomy and/or proctectomy - open
45120	Proctectomy, complete (for congenital megacolon), abdominal and perineal approach; with pull-through procedure and anastomosis (eg, Swenson, Duhamel, or Soave type operation)	Colectomy and/or proctectomy - open
45119	Proctectomy, combined abdominoperineal pull-through procedure (eg, colo- anal anastomosis), with creation of colonic reservoir (eg, J-pouch), with diverting enterostomy when performed	Colectomy and/or proctectomy - open
45112	Proctectomy, combined abdominoperineal, pull-through procedure (eg, colo- anal anastomosis)	Colectomy and/or proctectomy - open
45111	Proctectomy; partial resection of rectum, transabdominal approach	Colectomy and/or proctectomy - open
44145	Colectomy, partial; with coloproctostomy (low pelvic anastomosis)	Colectomy and/or proctectomy - open
44140	Colectomy, partial; with anastomosis	Colectomy and/or proctectomy - open
45114	Proctectomy, partial, with anastomosis; abdominal and transsacral approach	Colectomy and/or proctectomy - open
44147	Colectomy, partial; abdominal and transanal approach	Colectomy and/or proctectomy - open
45123	Proctectomy, partial, without anastomosis, perineal approach	Colectomy and/or proctectomy - open
45116	Proctectomy, partial, with anastomosis; transsacral approach only (Kraske type)	Colectomy and/or proctectomy - open
45113	Proctectomy, partial, with rectal mucosectomy, ileoanal anastomosis, creation of ileal reservoir (S or J), with or without loop ileostomy	Colectomy and/or proctectomy - open
44188	Laparoscopy, surgical, colostomy or skin level cecostomy	Colostomy - laparoscopic
44345	Revision of colostomy; complicated (reconstruction in-depth) (separate procedure)	Colostomy - open
44340	Revision of colostomy; simple (release of superficial scar) (separate procedure)	Colostomy - open
44322	Colostomy or skin level cecostomy; with multiple biopsies (eg, for congenital megacolon) (separate procedure)	Colostomy - open
44320	Colostomy or skin level cecostomy;	Colostomy - open
44346	Revision of colostomy; with repair of paracolostomy hernia (separate procedure)	Colostomy - open
44025	Colotomy, for exploration, biopsy(s), or foreign body removal	Colotomy
57120	Colpocleisis (Le Fort type)	Colpocleisis (Le Fort type)
57210	Colpoperineorrhaphy, suture of injury of vagina and/or perineum (nonobstetrical)	Colpoperineorrhaphy
57425	Laparoscopy, surgical, colpopexy (suspension of vaginal apex)	Colpopexy - laparoscopic
57280	Colpopexy, abdominal approach	Colpopexy - open
57283	Colpopexy, vaginal; intra-peritoneal approach (uterosacral, levator myorrhaphy)	Colpopexy - open
57282	Colpopexy, vaginal; extra-peritoneal approach (sacrospinous, iliococcygeus)	Colpopexy - open
57265	Combined anteroposterior colporrhaphy; with enterocele repair	Colporrhaphy
57250	Posterior colporrhaphy, repair of rectocele with or without perineorrhaphy	Colporrhaphy
57260	Combined anteroposterior colporrhaphy;	Colporrhaphy
57200	Colporrhaphy, suture of injury of vagina (nonobstetrical)	Colporrhaphy
57240	Anterior colporrhaphy, repair of cystocele with or without repair of urethrocele	Colporrhaphy
13150	Repair, complex, eyelids, nose, ears and/or lips; 1.0 cm or less	Complex repair of eyelids, nose, ears, and/or lips
21050	Condylectomy, temporomandibular joint (separate procedure)	Condylectomy of temporomandibular joint
68750	Conjunctivorhinostomy (fistulization of conjunctiva to nasal cavity); with insertion of tube or stent	Conjunctival flap
68326	Conjunctivoplasty, reconstruction cul-de-sac; with conjunctival graft or extensive rearrangement	Conjunctival flap
68745	Conjunctivorhinostomy (fistulization of conjunctiva to nasal cavity); without tube	Conjunctival flap
68362	Conjunctival flap; total (such as Gunderson thin flap or purse string flap)	Conjunctival flap
68328	Conjunctivoplasty, reconstruction cul-de-sac; with buccal mucous membrane graft (includes obtaining graft)	Conjunctival flap
68360	Conjunctival flap; bridge or partial (separate procedure)	Conjunctival flap
68325	Conjunctivoplasty; with buccal mucous membrane graft (includes obtaining graft)	Conjunctival flap
68320	Conjunctivoplasty; with conjunctival graft or extensive rearrangement	Conjunctival flap

Continued		
Code	Code description	Procedure type
57292	Construction of artificial vagina; with graft	Construction of artificial vagina
57291	Construction of artificial vagina; without graft	Construction of artificial vagina
67880	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy;	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy
67882	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy; with transposition of tarsal plate	Construction of intermarginal adhesions, median tarsorrhaphy, or canthorrhaphy
31611	Construction of tracheoesophageal fistula and subsequent insertion of an alaryngeal speech prosthesis (eg, voice button, Blom-Singer prosthesis)	Construction of tracheoesophageal fistula and subsequent insertion of an alaryngeal speech prosthesis
42972	Control of nasopharyngeal hemorrhage, primary or secondary (eg, postadenoidectomy); with secondary surgical intervention	Control of nasopharyngeal or oropharyngeal hemorrhage
42971	Control of nasopharyngeal hemorrhage, primary or secondary (eg, postadenoidectomy); complicated, requiring hospitalization	Control of nasopharyngeal or oropharyngeal hemorrhage
42962	Control oropharyngeal hemorrhage, primary or secondary (eg, posttonsillectomy); with secondary surgical intervention	Control of nasopharyngeal or oropharyngeal hemorrhage
42961	Control oropharyngeal hemorrhage, primary or secondary (eg, posttonsillectomy); complicated, requiring hospitalization	Control of nasopharyngeal or oropharyngeal hemorrhage
23415	Coracoacromial ligament release, with or without acromioplasty	Coracoacromial ligament release
65772	Corneal relaxing incision for correction of surgically induced astigmatism	Corneal relaxing incision for correction of surgically induced astigmatism
65775	Corneal wedge resection for correction of surgically induced astigmatism	Corneal wedge resection for correction of surgically induced astigmatism
21070	Coronoidectomy (separate procedure)	Coronoidectomy
54420	Corpora cavernosa-saphenous vein shunt (priapism operation), unilateral or bilateral	Corpora cavernosa shunts fore priapism
54430	Corpora cavernosa-corpora spongiosum shunt (priapism operation), unilateral or bilateral	Corpora cavernosa shunts fore priapism
28299	Correction, hallux valgus (bunion), with or without sesamoidectomy; by double osteotomy	Correction of hallux valgus
28298	Correction, hallux valgus (bunion), with or without sesamoidectomy; by phalanx osteotomy	Correction of hallux valgus
28297	Correction, hallux valgus (bunion), with or without sesamoidectomy; Lapidus- type procedure	Correction of hallux valgus
28295	Correction, hallux valgus (bunionectomy), with sesamoidectomy, when performed; with proximal metatarsal osteotomy, any method	Correction of hallux valgus
28296	Correction, hallux valgus (bunion), with or without sesamoidectomy; with metatarsal osteotomy (eg, Mitchell, Chevron, or concentric type procedures)	Correction of hallux valgus
28292	Correction, hallux valgus (bunion), with or without sesamoidectomy; Keller, McBride, or Mayo type procedure	Correction of hallux valgus
28291	Hallux rigidus correction with cheilectomy, debridement and capsular release of the first metatarsophalangeal joint; with implant	Correction of hallux valgus
28294	Correction, hallux valgus (bunion), with or without sesamoidectomy; with tendon transplants (eg, Joplin type procedure)	Correction of hallux valgus
28290	Correction, hallux valgus (bunion), with or without sesamoidectomy; simple exostectomy (eg, Silver type procedure)	Correction of hallux valgus
28285	Correction, hammertoe (eg, interphalangeal fusion, partial or total phalangectomy)	Correction of hallux valgus
28289	Hallux rigidus correction with cheilectomy, debridement and capsular release of the first metatarsophalangeal joint	Correction of hallux valgus
28293	Correction, hallux valgus (bunion), with or without sesamoidectomy; resection of joint with implant	Correction of hallux valgus
67912	Correction of lagophthalmos, with implantation of upper eyelid lid load (eg, gold weight)	Correction of lagophthalmos
67911	Correction of lid retraction	Correction of lid retraction
21610	Costotransversectomy (separate procedure)	Costotransversectomy
61512	Craniectomy, trephination, bone flap craniotomy; for excision of meningioma, supratentorial	Craniectomy or craniotomy
62100	Craniotomy for repair of dural/cerebrospinal fluid leak, including surgery for rhinorrhea/ otorrhea	Craniectomy or craniotomy
62121	Craniotomy for repair of encephalocele, skull base	Craniectomy or craniotomy
61870	Craniectomy for implantation of neurostimulator electrodes, cerebellar; cortical	Craniectomy or craniotomy
61571	Craniectomy or craniotomy; with treatment of penetrating wound of brain	Craniectomy or craniotomy
61570	Craniectomy or craniotomy; with excision of foreign body from brain	Craniectomy or craniotomy

Continued		
Code	Code description	Procedure type
61567	Craniotomy with elevation of bone flap; for multiple subpial transections, with electrocorticography during surgery	Craniectomy or craniotomy
61566	Craniotomy with elevation of bone flap; for selective amygdalohippocampectomy	Craniectomy or craniotomy
61546	Craniotomy for hypophysectomy or excision of pituitary tumor, intracranial approach	Craniectomy or craniotomy
61545	Craniotomy with elevation of bone flap; for excision of craniopharyngioma	Craniectomy or craniotomy
61542	Craniotomy with elevation of bone flap; for total hemispherectomy	Craniectomy or craniotomy
61541	Craniotomy with elevation of bone flap; for transection of corpus callosum	Craniectomy or craniotomy
61539	Craniotomy with elevation of bone flap; for lobectomy, other than temporal lobe, partial or total, with electrocorticography during surgery	Craniectomy or craniotomy
61540	Craniotomy with elevation of bone flap; for lobectomy, other than temporal lobe, partial or total, without electrocorticography during surgery	Craniectomy or craniotomy
61537	Craniotomy with elevation of bone flap; for lobectomy, temporal lobe, without electrocorticography during surgery	Craniectomy or craniotomy
61538	Craniotomy with elevation of bone flap; for lobectomy, temporal lobe, with electrocorticography during surgery	Craniectomy or craniotomy
61535	Craniotomy with elevation of bone flap; for removal of epidural or subdural electrode array, without excision of cerebral tissue (separate procedure)	Craniectomy or craniotomy
61534	Craniotomy with elevation of bone flap; for excision of epileptogenic focus without electrocorticography during surgery	Craniectomy or craniotomy
61533	Craniotomy with elevation of bone flap; for subdural implantation of an electrode array, for long-term seizure monitoring	Craniectomy or craniotomy
61530	Craniectomy, bone flap craniotomy, transtemporal (mastoid) for excision of cerebellopontine angle tumor; combined with middle/posterior fossa craniotomy/craniectomy	Craniectomy or craniotomy
61544	Craniotomy with elevation of bone flap; for excision or coagulation of choroid plexus	Craniectomy or craniotomy
61524	Craniectomy, infratentorial or posterior fossa; for excision or fenestration of cyst	Craniectomy or craniotomy
61543	Craniotomy with elevation of bone flap; for partial or subtotal (functional) hemispherectomy	Craniectomy or craniotomy
61536	Craniotomy with elevation of bone flap; for excision of cerebral epileptogenic focus, with electrocorticography during surgery (includes removal of electrode array)	Craniectomy or craniotomy
61522	Craniectomy, infratentorial or posterior fossa; for excision of brain abscess	Craniectomy or craniotomy
61526	Craniectomy, bone flap craniotomy, transtemporal (mastoid) for excision of cerebellopontine angle tumor;	Craniectomy or craniotomy
61521	Craniectomy for excision of brain tumor, infratentorial or posterior fossa; midline tumor at base of skull	Craniectomy or craniotomy
61520	Craniectomy for excision of brain tumor, infratentorial or posterior fossa; cerebellopontine angle tumor	Craniectomy or craniotomy
61510	Craniectomy, trephination, bone flap craniotomy; for excision of brain tumor, supratentorial, except meningioma	Craniectomy or craniotomy
61875	Craniectomy for implantation of neurostimulator electrodes, cerebellar; subcortical	Craniectomy or craniotomy
61860	Craniectomy or craniotomy for implantation of neurostimulator electrodes, cerebral, cortical	Craniectomy or craniotomy
61519	Craniectomy for excision of brain tumor, infratentorial or posterior fossa; meningioma	Craniectomy or craniotomy
61518	Craniectomy for excision of brain tumor, infratentorial or posterior fossa; except meningioma, cerebellopontine angle tumor, or midline tumor at base of skull	Craniectomy or craniotomy
61516	Craniectomy, trephination, bone flap craniotomy; for excision or fenestration of cyst, supratentorial	Craniectomy or craniotomy
61500	Craniectomy; with excision of tumor or other bone lesion of skull	Craniectomy or craniotomy
61501	Craniectomy; for osteomyelitis	Craniectomy or craniotomy
61470	Craniectomy, suboccipital; for medullary tractotomy	Craniectomy or craniotomy
61458	Craniectomy, suboccipital; for exploration or decompression of cranial nerves	Craniectomy or craniotomy
61460	Craniectomy, suboccipital; for section of 1 or more cranial nerves	Craniectomy or craniotomy
61480	Craniectomy, suboccipital; for mesencephalic tractotomy or pedunculotomy	Craniectomy or craniotomy
61440	Craniectomy for section of tentorium cerebelli (separate procedure)	Craniectomy or craniotomy
61450	Craniectomy, subtemporal, for section, compression, or decompression of sensory root of gasserian ganglion	Craniectomy or craniotomy
61323	Craniectomy or craniotomy, decompressive, with or without duraplasty, for treatment of intracranial hypertension, without evacuation of associated intraparenchymal hematoma; with lobectomy	Craniectomy or craniotomy

Continued		
Code	Code description	Procedure type
61514	Craniectomy, trephination, bone flap craniotomy; for excision of brain abscess, supratentorial	Craniectomy or craniotomy
61343	Craniectomy, suboccipital with cervical laminectomy for decompression of medulla and spinal cord, with or without dural graft (eg, Arnold-Chiari malformation)	Craniectomy or craniotomy
61321	Craniectomy or craniotomy, drainage of intracranial abscess; infratentorial	Craniectomy or craniotomy
61322	Craniectomy or craniotomy, decompressive, with or without duraplasty, for treatment of intracranial hypertension, without evacuation of associated intraparenchymal hematoma; without lobectomy	Craniectomy or craniotomy
61314	Craniectomy or craniotomy for evacuation of hematoma, infratentorial; extradural or subdural	Craniectomy or craniotomy
61320	Craniectomy or craniotomy, drainage of intracranial abscess; supratentorial	Craniectomy or craniotomy
61490	Craniotomy for lobotomy, including cingulotomy	Craniectomy or craniotomy
61313	Craniectomy or craniotomy for evacuation of hematoma, supratentorial; intracerebral	Craniectomy or craniotomy
61315	Craniectomy or craniotomy for evacuation of hematoma, infratentorial; intracerebellar	Craniectomy or craniotomy
61312	Craniectomy or craniotomy for evacuation of hematoma, supratentorial; extradural or subdural	Craniectomy or craniotomy
61305	Craniectomy or craniotomy, exploratory; infratentorial (posterior fossa)	Craniectomy or craniotomy
61304	Craniectomy or craniotomy, exploratory; supratentorial	Craniectomy or craniotomy
61585	Orbitocranial approach to anterior cranial fossa, extradural, including supraorbital ridge osteotomy and elevation of frontal and/or temporal lobe(s); with orbital exenteration	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61583	Craniofacial approach to anterior cranial fossa; intradural, including unilateral or bifrontal craniotomy, elevation or resection of frontal lobe, osteotomy of base of anterior cranial fossa	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61582	Craniofacial approach to anterior cranial fossa; extradural, including unilateral or bifrontal craniotomy, elevation of frontal lobe(s), osteotomy of base of anterior cranial fossa	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61580	Craniofacial approach to anterior cranial fossa; extradural, including lateral rhinotomy, ethmoidectomy, sphenoidectomy, without maxillectomy or orbital exenteration	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61586	Bicoronal, transzygomatic and/or LeFort I osteotomy approach to anterior cranial fossa with or without internal fixation, without bone graft	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61584	Orbitocranial approach to anterior cranial fossa, extradural, including supraorbital ridge osteotomy and elevation of frontal and/or temporal lobe(s); without orbital exenteration	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
61581	Craniofacial approach to anterior cranial fossa; extradural, including lateral rhinotomy, orbital exenteration, ethmoidectomy, sphenoidectomy and/or maxillectomy	Craniofacial, orbitocranial, bicoronal approach to anterior cranial fossa
62146	Cranioplasty with autograft (includes obtaining bone grafts); up to 5 cm diameter	Cranioplasty
62145	Cranioplasty for skull defect with reparative brain surgery	Cranioplasty
62147	Cranioplasty with autograft (includes obtaining bone grafts); larger than 5 cm diameter	Cranioplasty
62143	Replacement of bone flap or prosthetic plate of skull	Cranioplasty
62141	Cranioplasty for skull defect; larger than 5 cm diameter	Cranioplasty
62140	Cranioplasty for skull defect; up to 5 cm diameter	Cranioplasty
62117	Reduction of craniomegalic skull (eg, treated hydrocephalus); requiring craniotomy and reconstruction with or without bone graft (includes obtaining grafts)	Cranioplasty
62142	Removal of bone flap or prosthetic plate of skull	Cranioplasty
62115	Reduction of craniomegalic skull (eg, treated hydrocephalus); not requiring bone grafts or cranioplasty	Cranioplasty
61559	Extensive craniectomy for multiple cranial suture craniosynostosis (eg, cloverleaf skull); recontouring with multiple osteotomies and bone autografts (eg, barrel-stave procedure) (includes obtaining grafts)	Cranioplasty
61558	Extensive craniectomy for multiple cranial suture craniosynostosis (eg, cloverleaf skull); not requiring bone grafts	Cranioplasty
61556	Craniotomy for craniosynostosis; frontal or parietal bone flap	Cranioplasty
62116	Reduction of craniomegalic skull (eg, treated hydrocephalus); with simple cranioplasty	Cranioplasty
61552	Craniectomy for craniosynostosis; multiple cranial sutures	Cranioplasty
61550	Craniectomy for craniosynostosis; single cranial suture	Cranioplasty
61557	Craniotomy for craniosynostosis; bifrontal bone flap	Cranioplasty
61735	Creation of lesion by stereotactic method, including burr hole(s) and localizing and recording techniques, single or multiple stages; subcortical structure(s) other than globus pallidus or thalamus	Creation of lesion by stereotactic method

Continued		
Code	Code description	Procedure type
61720	Creation of lesion by stereotactic method, including burr hole(s) and localizing and recording techniques, single or multiple stages; globus pallidus or thalamus	Creation of lesion by stereotactic method
33025	Creation of pericardial window or partial resection for drainage	Creation of pericardial window
63740	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; including laminectomy	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy
63741	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; percutaneous, not requiring laminectomy	Creation of shunt, lumbar, subarachnoid-peritoneal, -pleural, or other; with or without laminectomy
43030	Cricopharyngeal myotomy	Cricopharyngeal myotomy
31592	Cricotracheal resection	Cricotracheal resection
55873	Cryosurgical ablation of the prostate (includes ultrasonic guidance and monitoring)	Cryosurgical ablation of the prostate
62258	Removal of complete cerebrospinal fluid shunt system; with replacement by similar or other shunt at same operation	CSF shunt
62256	Removal of complete cerebrospinal fluid shunt system; without replacement	CSF shunt
62223	Creation of shunt; ventriculo-peritoneal, -pleural, other terminus	CSF shunt
62192	Creation of shunt, subarachnoid/subdural-peritoneal, -pleural, other terminus	CSF shunt
62190	Creation of shunt, subarachnoid/subdural-atrial, -jugular, -auricular	CSF shunt
37193	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	CSF shunt
37192	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	CSF shunt
37191	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	CSF shunt
62230	Replacement or revision of cerebrospinal fluid shunt, obstructed valve, or distal catheter in shunt system	CSF shunt
62220	Creation of shunt; ventriculo-atrial, -jugular, -auricular	CSF shunt
50845	Cutaneous appendico-vesicostomy	Cutaneous appendico-vesicostomy
51980	Cutaneous vesicostomy	Cutaneous vesicostomy
51596	Cystectomy, complete, with continent diversion, any open technique, using any segment of small and/or large intestine to construct neobladder	Cystectomy
51595	Cystectomy, complete, with ureteroileal conduit or sigmoid bladder, including intestine anastomosis; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes	Cystectomy
51590	Cystectomy, complete, with ureteroileal conduit or sigmoid bladder, including intestine anastomosis;	Cystectomy
51585	Cystectomy, complete, with ureterosigmoidostomy or ureterocutaneous transplantations; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes	Cystectomy
51580	Cystectomy, complete, with ureterosigmoidostomy or ureterocutaneous transplantations;	Cystectomy
51575	Cystectomy, complete; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes	Cystectomy
51570	Cystectomy, complete; (separate procedure)	Cystectomy
51565	Cystectomy, partial, with reimplantation of ureter(s) into bladder (ureteroneocystostomy)	Cystectomy
51555	Cystectomy, partial; complicated (eg, postradiation, previous surgery, difficult location)	Cystectomy
51550	Cystectomy, partial; simple	Cystectomy
51050	Cystolithotomy, cystotomy with removal of calculus, without vesical neck resection	Cystolithotomy, cystotomy with removal of calculus
51800	Cystoplasty or cystourethroplasty, plastic operation on bladder and/or vesical neck (anterior Y-plasty, vesical fundus resection), any procedure, with or without wedge resection of posterior vesical neck	Cystoplasty or cystourethroplasty
51865	Cystorrhaphy, suture of bladder wound, injury or rupture; complicated	Cystorrhaphy, suture of bladder wound, injury or rupture
51820	Cystourethroplasty with unilateral or bilateral ureteroneocystostomy	Cystorrhaphy, suture of bladder wound, injury or rupture

Continued		
Code	Code description	Procedure type
51860	Cystorrhaphy, suture of bladder wound, injury or rupture; simple	Cystorrhaphy, suture of bladder wound, injury or rupture
51535	Cystotomy for excision, incision, or repair of ureterocele	Cystotomy or cystostomy
51530	Cystotomy; for excision of bladder tumor	Cystotomy or cystostomy
51525	Cystotomy; for excision of bladder diverticulum, single or multiple (separate procedure)	Cystotomy or cystostomy
51520	Cystotomy; for simple excision of vesical neck (separate procedure)	Cystotomy or cystostomy
51065	Cystotomy, with calculus basket extraction and/or ultrasonic or electrohydraulic fragmentation of ureteral calculus	Cystotomy or cystostomy
51045	Cystotomy, with insertion of ureteral catheter or stent (separate procedure)	Cystotomy or cystostomy
51040	Cystostomy, cystotomy with drainage	Cystotomy or cystostomy
51030	Cystotomy or cystostomy; with cryosurgical destruction of intravesical lesion	Cystotomy or cystostomy
51020	Cystotomy or cystostomy; with fulguration and/or insertion of radioactive material	Cystotomy or cystostomy
68720	Dacryocystorhinostomy (fistulization of lacrimal sac to nasal cavity)	Dacryocystorhinostomy
23000	Removal of subdeltoid calcareous deposits - open	Debridement of shoulder
11043	Debridement, muscle and/or fascia (includes epidermis, dermis, and subcutaneous tissue, if performed); first 20 sq cm or less	Debridement of skin, muscle, or bone
11006	Debridement of skin, subcutaneous tissue, muscle and fascia for necrotizing soft tissue infection; external genitalia, perineum and abdominal wall, with or without fascial closure	Debridement of skin, muscle, or bone
11005	Debridement of skin, subcutaneous tissue, muscle and fascia for necrotizing soft tissue infection; abdominal wall, with or without fascial closure	Debridement of skin, muscle, or bone
11010	Debridement including removal of foreign material at the site of an open fracture and/or an open dislocation (eg, excisional debridement); skin and subcutaneous tissues	Debridement of skin, muscle, or bone
11011	Debridement including removal of foreign material at the site of an open fracture and/or an open dislocation (eg, excisional debridement); skin, subcutaneous tissue, muscle fascia, and muscle	Debridement of skin, muscle, or bone
11012	Debridement including removal of foreign material at the site of an open fracture and/or an open dislocation (eg, excisional debridement); skin, subcutaneous tissue, muscle fascia, muscle, and bone	Debridement of skin, muscle, or bone
11044	Debridement, bone (includes epidermis, dermis, subcutaneous tissue, muscle and/or fascia, if performed); first 20 sq cm or less	Debridement of skin, muscle, or bone
21750	Closure of median sternotomy separation with or without debridement (separate procedure)	Debridement of sternum
27894	Decompression fasciotomy, leg; anterior and/or lateral, and posterior compartment(s), with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of lower extremity
27892	Decompression fasciotomy, leg; anterior and/or lateral compartments only, with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of lower extremity
27602	Decompression fasciotomy, leg; anterior and/or lateral, and posterior compartment(s)	Decompression fasciotomy of lower extremity
27601	Decompression fasciotomy, leg; posterior compartment(s) only	Decompression fasciotomy of lower extremity
27600	Decompression fasciotomy, leg; anterior and/or lateral compartments only	Decompression fasciotomy of lower extremity
27499	Decompression fasciotomy, thigh and/or knee, multiple compartments; with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of lower extremity
27497	Decompression fasciotomy, thigh and/or knee, 1 compartment (flexor or extensor or adductor); with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of lower extremity
25025	Decompression fasciotomy, forearm and/or wrist, flexor AND extensor compartment; with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of upper extremity
25020	Decompression fasciotomy, forearm and/or wrist, flexor OR extensor compartment; without debridement of nonviable muscle and/or nerve	Decompression fasciotomy of upper extremity
24495	Decompression fasciotomy, forearm, with brachial artery exploration	Decompression fasciotomy of upper extremity
27893	Decompression fasciotomy, leg; posterior compartment(s) only, with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of upper extremity
25023	Decompression fasciotomy, forearm and/or wrist, flexor OR extensor compartment; with debridement of nonviable muscle and/or nerve	Decompression fasciotomy of upper extremity
25024	Decompression fasciotomy, forearm and/or wrist, flexor AND extensor compartment; without debridement of nonviable muscle and/or nerve	Decompression fasciotomy of upper extremity

Continued		
Code	Code description	Procedure type
26037	Decompressive fasciotomy, hand (excludes 26035)	Decompression fasciotomy of upper extremity
26035	Decompression fingers and/or hand, injection injury (eg, grease gun)	Decompression fasciotomy of upper extremity
27496	Decompression fasciotomy, thigh and/or knee, 1 compartment (flexor or extensor or adductor);	Decompression fasciotomy of upper extremity
27498	Decompression fasciotomy, thigh and/or knee, multiple compartments;	Decompression fasciotomy of upper extremity
69960	Decompression internal auditory canal	Decompression of internal auditory canal
61330	Decompression of orbit only, transcranial approach	Decompression of orbit only, transcranial approach
50940	Deligation of ureter	Deligation of ureter
27035	Denervation, hip joint, intrapelvic or extrapelvic intra-articular branches of sciatic, femoral, or obturator nerves	Denervation of hip joint
46924	Destruction of lesion(s), anus (eg, condyloma, papilloma, molluscum contagiosum, herpetic vesicle), extensive (eg, laser surgery, electrosurgery, cryosurgery, chemosurgery)	Destruction of lesion(s), anus
67220	Destruction of localized lesion of choroid (eg, choroidal neovascularization); photocoagulation (eg, laser), 1 or more sessions	Destruction of localized lesion of retina
67218	Destruction of localized lesion of retina (eg, macular edema, tumors), 1 or more sessions; radiation by implantation of source (includes removal of source)	Destruction of localized lesion of retina
67210	Destruction of localized lesion of retina (eg, macular edema, tumors), 1 or more sessions; photocoagulation	Destruction of localized lesion of retina
67208	Destruction of localized lesion of retina (eg, macular edema, tumors), 1 or more sessions; cryotherapy, diathermy	Destruction of localized lesion of retina
39503	Repair, neonatal diaphragmatic hernia, with or without chest tube insertion and with or without creation of ventral hernia	Diaphragmatic hernia repair (neonatal)
39541	Repair, diaphragmatic hernia (other than neonatal), traumatic; chronic	Diaphragmatic hernia repair (other than neonatal)
39540	Repair, diaphragmatic hernia (other than neonatal), traumatic; acute	Diaphragmatic hernia repair (other than neonatal)
39501	Repair, laceration of diaphragm, any approach	Diaphragmatic repair
33645	Direct or patch closure, sinus venosus, with or without anomalous pulmonary venous drainage	Direct or patch closure, sinus venosus, with or without anomalous pulmonary venous drainage
35152	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, popliteal artery	Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity
35151	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, popliteal artery	Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity
35142	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for ruptured aneurysm, common femoral artery (profunda femoris, superficial femoral)	Direct repair of aneurysm, pseudoaneurysm, or excision, lower extremity
23921	Disarticulation of shoulder; secondary closure or scar revision	Disarticulation of shoulder
23920	Disarticulation of shoulder;	Disarticulation of shoulder
25924	Disarticulation through wrist; re-amputation	Disarticulation through wrist
25922	Disarticulation through wrist; secondary closure or scar revision	Disarticulation through wrist
25920	Disarticulation through wrist;	Disarticulation through wrist
66820	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); stab incision technique (Ziegler or Wheeler knife)	Discission of secondary membranous cataract
67030	Discission of vitreous strands (without removal), pars plana approach	Discission of vitreous strands (without removal), pars plana approach
43130	Diverticulectomy of hypopharynx or esophagus, with or without myotomy; cervical approach	Diverticulectomy of hypopharynx or esophagus
43135	Diverticulectomy of hypopharynx or esophagus, with or without myotomy; thoracic approach	Diverticulectomy of hypopharynx or esophagus

Continued		
Code	Code description	Procedure type
33802	Division of aberrant vessel (vascular ring);	Division of aberrant vessel (vascular ring)
33803	Division of aberrant vessel (vascular ring); with reanastomosis	Division of aberrant vessel (vascular ring)
28250	Division of plantar fascia and muscle (eg, Steindler stripping) (separate procedure)	Division of plantar fascia and muscle
21700	Division of scalenus anticus; without resection of cervical rib	Division of scalenus anticus
21705	Division of scalenus anticus; with resection of cervical rib	Division of scalenus anticus
21725	Division of sternocleidomastoid for torticollis - open operation; with cast application	Division of sternocleidomastoid
21720	Division of sternocleidomastoid for torticollis - open operation; without cast application	Division of sternocleidomastoid
45150	Division of stricture of rectum	Division of stricture of rectum
68371	Harvesting conjunctival allograft, living donor	Donor procedure, Harvesting conjunctival allograft, living donor
19020	Mastotomy with exploration or drainage of abscess, deep	Drainage of breast abscess
49062	Drainage of extraperitoneal lymphocele to peritoneal cavity - open	Drainage of extraperitoneal lymphocele to peritoneal cavity - open
58822	Drainage of ovarian abscess; abdominal approach	Drainage of ovarian abscess
58820	Drainage of ovarian abscess; vaginal approach - open	Drainage of ovarian abscess
58805	Drainage of ovarian cyst(s), unilateral or bilateral (separate procedure); abdominal approach	Drainage of ovarian cyst(s), abdominal approach
58823	Drainage of pelvic abscess, transvaginal or transrectal approach, percutaneous (eg, ovarian, pericolic)	Drainage of pelvic abscess - percutaneous
50020	Drainage of perirenal or renal abscess - open	Drainage of perirenal or renal abscess - open
49020	Drainage of peritoneal abscess or localized peritonitis, exclusive of appendiceal abscess - open	Drainage of peritoneal abscess - open
49021	Drainage of peritoneal abscess or localized peritonitis, exclusive of appendiceal abscess; percutaneous	Drainage of peritoneal abscess - percutaneous
49060	Drainage of retroperitoneal abscess - open	Drainage of retroperitoneal abscess - open
49061	Drainage of retroperitoneal abscess; percutaneous	Drainage of retroperitoneal abscess - percutaneous
42305	Drainage of abscess; parotid, complicated	Drainage of salivary gland abscess
49040	Drainage of subdiaphragmatic or subphrenic abscess - open	Drainage of subdiaphragmatic or subphrenic abscess - open
49041	Drainage of subdiaphragmatic or subphrenic abscess; percutaneous	Drainage of subdiaphragmatic or subphrenic abscess - percutaneous
48547	Duodenal exclusion with gastrojejunostomy for pancreatic injury	Duodenal exclusion with gastrojejunostomy for pancreatic injury
44010	Duodenotomy, for exploration, biopsy(s), or foreign body removal	Duodenotomy
63710	Dural graft, spinal	Dural graft, spinal
36823	Insertion of arterial and venous cannula(s) for isolated extracorporeal circulation including regional chemotherapy perfusion to an extremity, with or without hyperthermia, with removal of cannula(s) and repair of arteriotomy and venotomy sites	ECMO
36822	Insertion of cannula(s) for prolonged extracorporeal circulation for cardiopulmonary insufficiency (ECMO) (separate procedure)	ECMO
33989	Removal of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	ECMO
33988	Insertion of left heart vent by thoracic incision (eg, sternotomy, thoracotomy) for ECMO/ECLS	ECMO
33986	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, 6 years and older	ECMO
33985	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age	ECMO
33984	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e) - open, 6 years and older	ECMO
33969	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; removal of peripheral (arterial and/or venous) cannula(e) - open, birth through 5 years of age	ECMO
33964	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition central cannula(e) by sternotomy or thoracotomy, 6 years and older (includes fluoroscopic guidance, when performed)	ECMO

Continued		
Code	Code description	Procedure type
33963	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age (includes fluoroscopic guidance, when performed)	ECMO
33962	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e) - open, 6 years and older (includes fluoroscopic guidance, when performed)	ECMO
33959	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; reposition peripheral (arterial and/or venous) cannula(e) - open, birth through 5 years of age (includes fluoroscopic guidance, when performed)	ECMO
33956	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, 6 years and older	ECMO
33955	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of central cannula(e) by sternotomy or thoracotomy, birth through 5 years of age	ECMO
33954	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e) - open, 6 years and older	ECMO
33953	Extracorporeal membrane oxygenation (ECMO)/extracorporeal life support (ECLS) provided by physician; insertion of peripheral (arterial and/or venous) cannula(e) - open, birth through 5 years of age	ECMO
59151	Laparoscopic treatment of ectopic pregnancy; with salpingectomy and/or oophorectomy	Ectopic pregnancy surgery
59150	Laparoscopic treatment of ectopic pregnancy; without salpingectomy and/or oophorectomy	Ectopic pregnancy surgery
59140	Surgical treatment of ectopic pregnancy; cervical, with evacuation	Ectopic pregnancy surgery
59136	Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy with partial resection of uterus	Ectopic pregnancy surgery
59135	Surgical treatment of ectopic pregnancy; interstitial, uterine pregnancy requiring total hysterectomy	Ectopic pregnancy surgery
59130	Surgical treatment of ectopic pregnancy; abdominal pregnancy	Ectopic pregnancy surgery
59121	Surgical treatment of ectopic pregnancy; tubal or ovarian, without salpingectomy and/or oophorectomy	Ectopic pregnancy surgery
59120	Surgical treatment of ectopic pregnancy; tubal or ovarian, requiring salpingectomy and/or oophorectomy, abdominal or vaginal approach	Ectopic pregnancy surgery
24346	Reconstruction medial collateral ligament, elbow, with tendon graft (includes harvesting of graft)	Elbow ligament reconstruction
24345	Repair medial collateral ligament, elbow, with local tissue	Elbow ligament reconstruction
24344	Reconstruction lateral collateral ligament, elbow, with tendon graft (includes harvesting of graft)	Elbow ligament reconstruction
24343	Repair lateral collateral ligament, elbow, with local tissue	Elbow ligament reconstruction
62000	Elevation of depressed skull fracture; simple, extradural	Elevation of depressed skull fracture
62010	Elevation of depressed skull fracture; with repair of dura and/or debridement of brain	Elevation of depressed skull fracture
62005	Elevation of depressed skull fracture; compound or comminuted, extradural	Elevation of depressed skull fracture
34101	Embolectomy or thrombectomy, with or without catheter; axillary, brachial, innominate, subclavian artery, by arm incision	Embolectomy or thrombectomy
34001	Embolectomy or thrombectomy, with or without catheter; carotid, subclavian or innominate artery, by neck incision	Embolectomy or thrombectomy
34201	Embolectomy or thrombectomy, with or without catheter; femoropopliteal, aortoiliac artery, by leg incision	Embolectomy or thrombectomy
34051	Embolectomy or thrombectomy, with or without catheter; innominate, subclavian artery, by thoracic incision	Embolectomy or thrombectomy
34203	Embolectomy or thrombectomy, with or without catheter; popliteal-tibio- peroneal artery, by leg incision	Embolectomy or thrombectomy
34111	Embolectomy or thrombectomy, with or without catheter; radial or ulnar artery, by arm incision	Embolectomy or thrombectomy
34151	Embolectomy or thrombectomy, with or without catheter; renal, celiac, mesentery, aortoiliac artery, by abdominal incision	Embolectomy or thrombectomy
58974	Embryo transfer, intrauterine	Embryo transfer, intrauterine
69806	Endolymphatic sac operation; with shunt	Endolymphatic sac operation
69805	Endolymphatic sac operation; without shunt	Endolymphatic sac operation

Continued		
Code	Code description	Procedure type
29893	Endoscopic plantar fasciotomy	Endoscopic plantar fasciotomy
34834	Open brachial artery exposure to assist in the deployment of aortic or iliac endovascular prosthesis by arm incision, unilateral	Endovascular access
34833	Open iliac artery exposure with creation of conduit for delivery of aortic or iliac endovascular prosthesis, by abdominal or retroperitoneal incision, unilateral	Endovascular access
34820	Open iliac artery exposure for delivery of endovascular prosthesis or iliac occlusion during endovascular therapy, by abdominal or retroperitoneal incision, unilateral	Endovascular access
34812	Open femoral artery exposure for delivery of endovascular prosthesis, by groin incision, unilateral	Endovascular access
33366	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	Endovascular aortic valve replacement
33365	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	Endovascular aortic valve replacement
33364	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	Endovascular aortic valve replacement
33363	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	Endovascular aortic valve replacement
33362	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	Endovascular aortic valve replacement
33361	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Endovascular aortic valve replacement
34900	Endovascular repair of iliac artery (eg, aneurysm, pseudoaneurysm, arteriovenous malformation, trauma) using ilio-iliac tube endoprosthesis	Endovascular repair of iliac artery
34718	Endovascular repair of iliac artery, not associated with placement of an aorto iliac artery endograft at the same session, by deployment of an iliac branched endograft, including pre-procedure sizing and device selection, all ipsilateral selective iliac artery catheterization(s), all associated radiological supervision and interpretation, and all endograft extension(s) proximally to the aortic bifurcation and distally in the internal iliac, external iliac, and common femoral artery(ies), and treatment zone angioplasty/stenting, when performed, for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, arteriovenous malformation, penetrating ulcer), unilateral	Endovascular repair of iliac artery
34708	Endovascular repair of iliac artery by deployment of an ilio-iliac tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and all endograft extension(s) proximally to the aortic bifurcation and distally to the iliac bifurcation, and treatment zone angioplasty/stenting, when performed, unilateral; for rupture including temporary aortic and/or iliac balloon occlusion, when performed (eg, for aneurysm, pseudoaneurysm, dissection, arteriovenous malformation, traumatic disruption)	Endovascular repair of iliac artery
34707	Endovascular repair of iliac artery by deployment of an ilio-iliac tube endograft including pre-procedure sizing and device selection, all nonselective catheterization(s), all associated radiological supervision and interpretation, and all endograft extension(s) proximally to the aortic bifurcation and distally to the iliac bifurcation, and treatment zone angioplasty/stenting, when performed, unilateral; for other than rupture (eg, for aneurysm, pseudoaneurysm, dissection, arteriovenous malformation)	Endovascular repair of iliac artery
51960	Enterocystoplasty, including intestinal anastomosis	Enterocystoplasty, including intestinal anastomosis
44180	Laparoscopy, surgical, enterolysis (freeing of intestinal adhesion) (separate procedure)	Enterolysis - laparoscopic
44005	Enterolysis (freeing of intestinal adhesion) (separate procedure)	Enterolysis - open
44021	Enterotomy, small intestine, other than duodenum; for decompression (eg, Baker tube)	Enterotomy
44020	Enterotomy, small intestine, other than duodenum; for exploration, biopsy(s), or foreign body removal	Enterotomy
65105	Enucleation of eye; with implant, muscles attached to implant	Enucleation of eye
65103	Enucleation of eye; with implant, muscles not attached to implant	Enucleation of eye
65101	Enucleation of eye; without implant	Enucleation of eye
54861	Epididymectomy; bilateral	Epididymectomy
54860	Epididymectomy; unilateral	Epididymectomy
54901	Epididymovasostomy, anastomosis of epididymis to vas deferens; bilateral	Epididymovasostomy, anastomosis of epididymis to vas deferens

Continued		
Code	Code description	Procedure type
54900	Epididymovasostomy, anastomosis of epididymis to vas deferens; unilateral	Epididymovasostomy, anastomosis of epididymis to vas deferens
31420	Epiglottidectomy	Epiglottidectomy
65767	Epikeratoplasty	Epikeratoplasty
27185	Epiphyseal arrest by epiphysiodesis or stapling, greater trochanter of femur	Epiphyseal arrest by epiphysiodesis or stapling, greater trochanter of femur
25455	Epiphyseal arrest by epiphysiodesis or stapling; distal radius AND ulna	Epiphyseal arrest by epiphysiodesis or stapling; distal radius and/or ulna
25450	Epiphyseal arrest by epiphysiodesis or stapling; distal radius OR ulna	Epiphyseal arrest by epiphysiodesis or stapling; distal radius and/or ulna
27732	Arrest, epiphyseal (epiphysiodesis) - open; distal fibula	Epiphyseal or hemiepiphyseal arrest, lower extremity
27730	Arrest, epiphyseal (epiphysiodesis) - open; distal tibia	Epiphyseal or hemiepiphyseal arrest, lower extremity
27740	Arrest, epiphyseal (epiphysiodesis), any method, combined, proximal and distal tibia and fibula;	Epiphyseal or hemiepiphyseal arrest, lower extremity
27479	Arrest, epiphyseal, any method (eg, epiphysiodesis); combined distal femur, proximal tibia and fibula	Epiphyseal or hemiepiphyseal arrest, lower extremity
27485	Arrest, hemiepiphyseal, distal femur or proximal tibia or fibula (eg, genu varus or valgus)	Epiphyseal or hemiepiphyseal arrest, lower extremity
27742	Arrest, epiphyseal (epiphysiodesis), any method, combined, proximal and distal tibia and fibula; and distal femur	Epiphyseal or hemiepiphyseal arrest, lower extremity
27477	Arrest, epiphyseal, any method (eg, epiphysiodesis); tibia and fibula, proximal	Epiphyseal or hemiepiphyseal arrest, lower extremity
27475	Arrest, epiphyseal, any method (eg, epiphysiodesis); distal femur	Epiphyseal or hemiepiphyseal arrest, lower extremity
27734	Arrest, epiphyseal (epiphysiodesis) - open; distal tibia and fibula	Epiphyseal or hemiepiphyseal arrest, lower extremity
24470	Hemiepiphyseal arrest (eg, cubitus varus or valgus, distal humerus)	Epiphyseal or hemiepiphyseal arrest, upper extremity
43325	Esophagogastric fundoplasty; with fundic patch (Thal-Nissen procedure)	Esophagogastric fundoplasty
43327	Esophagogastric fundoplasty partial or complete; laparotomy	Esophagogastric fundoplasty
43328	Esophagogastric fundoplasty partial or complete; thoracotomy	Esophagogastric fundoplasty
43116	Partial esophagectomy, cervical, with free intestinal graft, including microvascular anastomosis, obtaining the graft and intestinal reconstruction	Esophagectomy
43287	Esophagectomy, distal two-thirds, with laparoscopic mobilization of the abdominal and lower mediastinal esophagus and proximal gastrectomy, with laparoscopic pyloric drainage procedure if performed, with separate thoracoscopic mobilization of the middle and upper mediastinal esophagus and thoracic esophagogastrostomy (ie - laparoscopic thoracoscopic esophagectomy, Ivor Lewis esophagectomy)	Esophagectomy
43286	Esophagectomy, total or near total, with laparoscopic mobilization of the abdominal and mediastinal esophagus and proximal gastrectomy, with laparoscopic pyloric drainage procedure if performed, with open cervical pharyngogastrostomy or esophagogastrostomy (ie - laparoscopic transhiatal esophagectomy)	Esophagectomy
43123	Partial esophagectomy, thoracoabdominal or abdominal approach, with or without proximal gastrectomy; with colon interposition or small intestine reconstruction, including intestine mobilization, preparation, and anastomosis(es)	Esophagectomy
43122	Partial esophagectomy, thoracoabdominal or abdominal approach, with or without proximal gastrectomy; with esophagogastrostomy, with or without pyloroplasty	Esophagectomy
43288	Esophagectomy, total or near total, with thoracoscopic mobilization of the upper, middle, and lower mediastinal esophagus, with separate laparoscopic proximal gastrectomy, with laparoscopic pyloric drainage procedure if performed, with open cervical pharyngogastrostomy or esophagogastrostomy (ie, thoracoscopic - laparoscopic and cervical incision esophagectomy, McKeown esophagectomy, tri-incisional esophagectomy)	Esophagectomy
43121	Partial esophagectomy, distal 2/3, with thoracotomy only, with or without proximal gastrectomy, with thoracic esophagogastrostomy, with or without pyloroplasty	Esophagectomy

Continued		
Code	Code description	Procedure type
43117	Partial esophagectomy, distal 2/3, with thoracotomy and separate abdominal incision, with or without proximal gastrectomy; with thoracic esophagogastrostomy, with or without pyloroplasty (Ivor Lewis)	Esophagectomy
43112	Total or near total esophagectomy, with thoracotomy; with pharyngogastrostomy or cervical esophagogastrostomy, with or without pyloroplasty	Esophagectomy
43118	Partial esophagectomy, distal 2/3, with thoracotomy and separate abdominal incision, with or without proximal gastrectomy; with colon interposition or small intestine reconstruction, including intestine mobilization, preparation, and anastomosis(es)	Esophagectomy
43113	Total or near total esophagectomy, with thoracotomy; with colon interposition or small intestine reconstruction, including intestine mobilization, preparation, and anastomosis(es)	Esophagectomy
43107	Total or near total esophagectomy, without thoracotomy; with pharyngogastrostomy or cervical esophagogastrostomy, with or without pyloroplasty (transhiatal)	Esophagectomy
43108	Total or near total esophagectomy, without thoracotomy; with colon interposition or small intestine reconstruction, including intestine mobilization, preparation and anastomosis(es)	Esophagectomy
43124	Total or partial esophagectomy, without reconstruction (any approach), with cervical esophagostomy	Esophagectomy
43320	Esophagogastrostomy (cardioplasty), with or without vagotomy and pyloroplasty, transabdominal or transthoracic approach	Esophagogastrostomy
43340	Esophagojejunostomy (without total gastrectomy); abdominal approach	Esophagojejunostomy
43341	Esophagojejunostomy (without total gastrectomy); thoracic approach	Esophagojejunostomy
43330	Esophagomyotomy (Heller type); abdominal approach	Esophagomyotomy
43331	Esophagomyotomy (Heller type); thoracic approach	Esophagomyotomy
43314	Esophagoplasty for congenital defect (plastic repair or reconstruction), thoracic approach; with repair of congenital tracheoesophageal fistula	Esophagoplasty
43313	Esophagoplasty for congenital defect (plastic repair or reconstruction), thoracic approach; without repair of congenital tracheoesophageal fistula	Esophagoplasty
43312	Esophagoplasty (plastic repair or reconstruction), thoracic approach; with repair of tracheoesophageal fistula	Esophagoplasty
43310	Esophagoplasty (plastic repair or reconstruction), thoracic approach; without repair of tracheoesophageal fistula	Esophagoplasty
43305	Esophagoplasty (plastic repair or reconstruction), cervical approach; with repair of tracheoesophageal fistula	Esophagoplasty
43300	Esophagoplasty (plastic repair or reconstruction), cervical approach; without repair of tracheoesophageal fistula	Esophagoplasty
43350	Esophagostomy, fistulization of esophagus, external; abdominal approach	Esophagostomy
43352	Esophagostomy, fistulization of esophagus, external; cervical approach	Esophagostomy
43351	Esophagostomy, fistulization of esophagus, external; thoracic approach	Esophagostomy
43020	Esophagotomy, cervical approach, with removal of foreign body	Esophagostomy
43045	Esophagotomy, thoracic approach, with removal of foreign body	Esophagostomy
31205	Ethmoidectomy; extranasal, total	Ethmoidectomy
31201	Ethmoidectomy; intranasal, total	Ethmoidectomy
31200	Ethmoidectomy; intranasal, anterior	Ethmoidectomy
65093	Evisceration of ocular contents; with implant	Evisceration of ocular contents
65091	Evisceration of ocular contents; without implant	Evisceration of ocular contents
66986	Exchange of intraocular lens	Exchange of intraocular lens
67966	Excision and repair of eyelid, involving lid margin, tarsus, conjunctiva, canthus, or full thickness, may include preparation for skin graft or pedicle flap with adjacent tissue transfer or rearrangement; over 1/4 of lid margin	Excision and repair of eyelid
67961	Excision and repair of eyelid, involving lid margin, tarsus, conjunctiva, canthus, or full thickness, may include preparation for skin graft or pedicle flap with adjacent tissue transfer or rearrangement; up to 1/4 of lid margin	Excision and repair of eyelid
48148	Excision of ampulla of Vater	Excision of ampulla of Vater
69552	Excision aural glomus tumor; transmastoid	Excision of aural glomus tumor
69554	Excision aural glomus tumor; extended (extratemporal)	Excision of aural glomus tumor
56740	Excision of Bartholin's gland or cyst	Excision of Bartholin's gland or cyst
47712	Excision of bile duct tumor; with or without primary repair of bile duct; intrahepatic	Excision of bile duct tumor

Continued		
Code	Code description	Procedure type
47711	Excision of bile duct tumor, with or without primary repair of bile duct; extrahepatic	Excision of bile duct tumor
25136	Excision or curettage of bone cyst or benign tumor of carpal bones; with allograft	Excision of bone cyst or benign tumor with or without bone grafting
25135	Excision or curettage of bone cyst or benign tumor of carpal bones; with autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
27357	Excision or curettage of bone cyst or benign tumor of femur; with autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
27355	Excision or curettage of bone cyst or benign tumor of femur;	Excision of bone cyst or benign tumor with or without bone grafting
27356	Excision or curettage of bone cyst or benign tumor of femur; with allograft	Excision of bone cyst or benign tumor with or without bone grafting
28108	Excision or curettage of bone cyst or benign tumor, phalanges of foot	Excision of bone cyst or benign tumor with or without bone grafting
28107	Excision or curettage of bone cyst or benign tumor, tarsal or metatarsal, except talus or calcaneus; with allograft	Excision of bone cyst or benign tumor with or without bone grafting
28106	Excision or curettage of bone cyst or benign tumor, tarsal or metatarsal, except talus or calcaneus; with iliac or other autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
28104	Excision or curettage of bone cyst or benign tumor, tarsal or metatarsal, except talus or calcaneus;	Excision of bone cyst or benign tumor with or without bone grafting
28103	Excision or curettage of bone cyst or benign tumor, talus or calcaneus; with allograft	Excision of bone cyst or benign tumor with or without bone grafting
28102	Excision or curettage of bone cyst or benign tumor, talus or calcaneus; with iliac or other autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
28100	Excision or curettage of bone cyst or benign tumor, talus or calcaneus;	Excision of bone cyst or benign tumor with or without bone grafting
26215	Excision or curettage of bone cyst or benign tumor of proximal, middle, or distal phalanx of finger; with autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
26210	Excision or curettage of bone cyst or benign tumor of proximal, middle, or distal phalanx of finger;	Excision of bone cyst or benign tumor with or without bone grafting
26205	Excision or curettage of bone cyst or benign tumor of metacarpal; with autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
26200	Excision or curettage of bone cyst or benign tumor of metacarpal;	Excision of bone cyst or benign tumor with or without bone grafting
27638	Excision or curettage of bone cyst or benign tumor, tibia or fibula; with allograft	Excision of bone cyst or benign tumor with or without bone grafting
27637	Excision or curettage of bone cyst or benign tumor, tibia or fibula; with autograft (includes obtaining graft)	Excision of bone cyst or benign tumor with or without bone grafting
27635	Excision or curettage of bone cyst or benign tumor, tibia or fibula;	Excision of bone cyst or benign tumor with or without bone grafting
27067	Excision of bone cyst or benign tumor, wing of ilium, symphysis pubis, or greater trochanter of femur; with autograft requiring separate incision	Excision of bone cyst or benign tumor with or without bone grafting
27066	Excision of bone cyst or benign tumor, wing of ilium, symphysis pubis, or greater trochanter of femur; deep (subfascial), includes autograft, when performed	Excision of bone cyst or benign tumor with or without bone grafting
27065	Excision of bone cyst or benign tumor, wing of ilium, symphysis pubis, or greater trochanter of femur; superficial, includes autograft, when performed	Excision of bone cyst or benign tumor with or without bone grafting
42815	Excision branchial cleft cyst, vestige, or fistula, extending beneath subcutaneous tissues and/or into pharynx	Excision of branchial cleft cyst, vestige, or fistula
19125	Excision of breast lesion identified by preoperative placement of radiological marker - open; single lesion	Excision of breast lesion
19120	Excision of cyst, fibroadenoma, or other benign or malignant tumor, aberrant breast tissue, duct lesion, nipple or areolar lesion (except 19300) - open, male or female, 1 or more lesions	Excision of breast lesion
53250	Excision of bulbourethral gland (Cowper's gland)	Excision of bulbourethral gland (Cowper's gland)
33120	Excision of intracardiac tumor; resection with cardiopulmonary bypass	Excision of cardiac tumor with cardiopulmonary bypass

Continued		
Code	Code description	Procedure type
60605	Excision of carotid body tumor; with excision of carotid artery	Excision of carotid body tumor
60600	Excision of carotid body tumor; without excision of carotid artery	Excision of carotid body tumor
57545	Excision of cervical stump, abdominal approach; with pelvic floor repair	Excision of cervical stump
57540	Excision of cervical stump, abdominal approach;	Excision of cervical stump
57556	Excision of cervical stump, vaginal approach; with repair of enterocele	Excision of cervical stump
57555	Excision of cervical stump, vaginal approach; with anterior and/or posterior repair	Excision of cervical stump
57550	Excision of cervical stump, vaginal approach;	Excision of cervical stump
19271	Excision of chest wall tumor involving ribs, with plastic reconstruction; without mediastinal lymphadenectomy	Excision of chest wall tumor, including ribs
19272	Excision of chest wall tumor involving ribs, with plastic reconstruction; with mediastinal lymphadenectomy	Excision of chest wall tumor, including ribs
19260	Excision of chest wall tumor including ribs	Excision of chest wall tumor, including ribs
21603	Excision of chest wall tumor involving rib(s), with plastic reconstruction; with mediastinal lymphadenectomy	Excision of chest wall tumor, including ribs
21602	Excision of chest wall tumor involving rib(s), with plastic reconstruction; without mediastinal lymphadenectomy	Excision of chest wall tumor, including ribs
21601	Excision of chest wall tumor including rib(s)	Excision of chest wall tumor, including ribs
47715	Excision of choledochal cyst	Excision of choledochal cyst
33851	Excision of coarctation of aorta, with or without associated patent ductus arteriosus; repair using either left subclavian artery or prosthetic material as gusset for enlargement	Excision of coarctation of aorta
33845	Excision of coarctation of aorta, with or without associated patent ductus arteriosus; with graft	Excision of coarctation of aorta
33840	Excision of coarctation of aorta, with or without associated patent ductus arteriosus; with direct anastomosis	Excision of coarctation of aorta
60200	Excision of cyst or adenoma of thyroid, or transection of isthmus	Excision of cyst or adenoma of thyroid, or transection of isthmus
38555	Excision of cystic hygroma, axillary or cervical; with deep neurovascular dissection	Excision of cystic hygroma
38550	Excision of cystic hygroma, axillary or cervical; without deep neurovascular dissection	Excision of cystic hygroma
30125	Excision dermoid cyst, nose; complex, under bone or cartilage	Excision of dermoid cyst, nose
25240	Excision distal ulna partial or complete (eg, Darrach type or matched resection)	Excision of distal ulna
20150	Excision of epiphyseal bar, with or without autogenous soft tissue graft obtained through same fascial incision	Excision of epiphyseal bar
15839	Excision, excessive skin and subcutaneous tissue (includes lipectomy); other area	Lipectomy, with or without excessive skin removal
15835	Excision, excessive skin and subcutaneous tissue (includes lipectomy); buttock	Lipectomy, with or without excessive skin removal
15834	Excision, excessive skin and subcutaneous tissue (includes lipectomy); hip	Lipectomy, with or without excessive skin removal
15830	Excision, excessive skin and subcutaneous tissue (includes lipectomy); abdomen, infraumbilical panniculectomy	Lipectomy, with or without excessive skin removal
15838	Excision, excessive skin and subcutaneous tissue (includes lipectomy); submental fat pad	Lipectomy, with or without excessive skin removal
15833	Excision, excessive skin and subcutaneous tissue (includes lipectomy); leg	Lipectomy, with or without excessive skin removal
15832	Excision, excessive skin and subcutaneous tissue (includes lipectomy); thigh	Lipectomy, with or without excessive skin removal
15837	Excision, excessive skin and subcutaneous tissue (includes lipectomy); forearm or hand	Lipectomy, with or without excessive skin removal
15836	Excision, excessive skin and subcutaneous tissue (includes lipectomy); arm	Lipectomy, with or without excessive skin removal
69140	Excision exostosis(es), external auditory canal	Excision of exostosis(es), external auditory canal
69120	Excision external ear; complete amputation	Excision of external ear
54512	Excision of extraparenchymal lesion of testis	Excision of extraparenchymal lesion of testis

Continued		
Code	Code description	Procedure type
21049	Excision of benign tumor or cyst of maxilla; requiring extra-oral osteotomy and partial maxillectomy (eg, locally aggressive or destructive lesion[s])	Excision of facial bone or tumor/cyst in facial bone
21048	Excision of benign tumor or cyst of maxilla; requiring intra-oral osteotomy (eg, locally aggressive or destructive lesion[s])	Excision of facial bone or tumor/cyst in facial bone
21047	Excision of benign tumor or cyst of mandible; requiring extra-oral osteotomy and partial mandibulectomy (eg, locally aggressive or destructive lesion[s])	Excision of facial bone or tumor/cyst in facial bone
21046	Excision of benign tumor or cyst of mandible; requiring intra-oral osteotomy (eg, locally aggressive or destructive lesion[s])	Excision of facial bone or tumor/cyst in facial bone
21045	Excision of malignant tumor of mandible; radical resection	Excision of facial bone or tumor/cyst in facial bone
21032	Excision of maxillary torus palatinus	Excision of facial bone or tumor/cyst in facial bone
21031	Excision of torus mandibularis	Excision of facial bone or tumor/cyst in facial bone
21030	Excision of benign tumor or cyst of maxilla or zygoma by enucleation and curettage	Excision of facial bone or tumor/cyst in facial bone
21029	Removal by contouring of benign tumor of facial bone (eg, fibrous dysplasia)	Excision of facial bone or tumor/cyst in facial bone
21026	Excision of bone (eg, for osteomyelitis or bone abscess); facial bone(s)	Excision of facial bone or tumor/cyst in facial bone
21025	Excision of bone (eg, for osteomyelitis or bone abscess); mandible	Excision of facial bone or tumor/cyst in facial bone
21044	Excision of malignant tumor of mandible;	Excision of facial bone or tumor/cyst in facial bone
21040	Excision of benign tumor or cyst of mandible, by enucleation and/or curettage	Excision of facial bone or tumor/cyst in facial bone
21034	Excision of malignant tumor of maxilla or zygoma	Excision of facial bone or tumor/cyst in facial bone
40819	Excision of frenum, labial or buccal (frenulectomy, frenectomy, frenectomy)	Excision of frenum, labial or buccal
25112	Excision of ganglion, wrist (dorsal or volar); recurrent	Excision of ganglion, wrist
25111	Excision of ganglion, wrist (dorsal or volar); primary	Excision of ganglion, wrist
55041	Excision of hydrocele; bilateral	Excision of hydrocele
55040	Excision of hydrocele; unilateral	Excision of hydrocele
55500	Excision of hydrocele of spermatic cord, unilateral (separate procedure)	Excision of hydrocele
35907	Excision of infected graft; abdomen	Excision of infected graft
35903	Excision of infected graft; extremity	Excision of infected graft
35901	Excision of infected graft; neck	Excision of infected graft
35905	Excision of infected graft; thorax	Excision of infected graft
61564	Excision, intra and extracranial, benign tumor of cranial bone (eg, fibrous dysplasia); with optic nerve decompression	Excision of intra and extracranial benign tumor of cranial bone
61563	Excision, intra and extracranial, benign tumor of cranial bone (eg, fibrous dysplasia); without optic nerve decompression	Excision of intra and extracranial benign tumor of cranial bone
27060	Excision; ischial bursa	Excision of ischial bursa
68550	Excision of lacrimal gland tumor; involving osteotomy	Excision of lacrimal gland or lacrimal gland tumor
68540	Excision of lacrimal gland tumor; frontal approach	Excision of lacrimal gland or lacrimal gland tumor
68505	Excision of lacrimal gland (dacryoadenectomy), except for tumor; partial	Excision of lacrimal gland or lacrimal gland tumor
68500	Excision of lacrimal gland (dacryoadenectomy), except for tumor; total	Excision of lacrimal gland or lacrimal gland tumor
68520	Excision of lacrimal sac (dacryocystectomy)	Excision of lacrimal sac
19112	Excision of lactiferous duct fistula	Excision of lactiferous duct fistula
27347	Excision of lesion of meniscus or capsule (eg, cyst, ganglion), knee	Excision of lesion of meniscus or capsule, knee
44820	Excision of lesion of mesentery (separate procedure)	Excision of lesion of mesentery

Continued		
Code	Code description	Procedure type
40816	Excision of lesion of mucosa and submucosa, vestibule of mouth; complex, with excision of underlying muscle	Excision of lesion of mucosa and submucosa, vestibule of mouth
40814	Excision of lesion of mucosa and submucosa, vestibule of mouth; with complex repair	Excision of lesion of mucosa and submucosa, vestibule of mouth
42107	Excision, lesion of palate, uvula; with local flap closure	Excision of lesion of palate, uvula
48120	Excision of lesion of pancreas (eg, cyst, adenoma)	Excision of lesion of pancreas (eg, cyst, adenoma)
55520	Excision of lesion of spermatic cord (separate procedure)	Excision of lesion of spermatic cord
27630	Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle	Excision of lesion of tendon sheath or capsule (eg, cyst or ganglion), leg and/or ankle
26160	Excision of lesion of tendon sheath or joint capsule (eg, cyst, mucous cyst, or ganglion), hand or finger	Excision of lesion of tendon sheath or joint capsule, hand or finger
25110	Excision, lesion of tendon sheath, forearm and/or wrist	Excision of lesion of tendon sheath, forearm and/or wrist
41114	Excision of lesion of tongue with closure; with local tongue flap	Excision of lesion of tongue
41827	Excision of lesion or tumor (except listed above), dentoalveolar structures; with complex repair	Excision of lesion or tumor, dentoalveolar structures
68130	Excision of lesion, conjunctiva; with adjacent sclera	Excision of lesion, conjunctiva
65400	Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium	Excision of lesion, cornea (keratectomy, lamellar, partial), except pterygium
43100	Excision of lesion, esophagus, with primary repair; cervical approach	Excision of lesion, esophagus
43101	Excision of lesion, esophagus, with primary repair; thoracic or abdominal approach	Excision of lesion, esophagus
66130	Excision of lesion, sclera	Excision of lesion, sclera
28092	Excision of lesion, tendon, tendon sheath, or capsule (including synovectomy) (eg, cyst or ganglion); toe(s), each	Excision of lesion, tendon, tendon sheath, or capsule; foot
28090	Excision of lesion, tendon, tendon sheath, or capsule (including synovectomy) (eg, cyst or ganglion); foot	Excision of lesion, tendon, tendon sheath, or capsule; foot
40527	Excision of lip; full thickness, reconstruction with cross lip flap (Abbe- Estlander)	Excision of lip
40525	Excision of lip; full thickness, reconstruction with local flap (eg, Estlander or fan)	Excision of lip
40530	Resection of lip, more than 1/4, without reconstruction	Excision of lip
40520	Excision of lip; V-excision with primary direct linear closure	Excision of lip
40510	Excision of lip; transverse wedge excision with primary closure	Excision of lip
54830	Excision of local lesion of epididymis	Excision of local lesion of epididymis
44800	Excision of Meckel's diverticulum (diverticulectomy) or omphalomesenteric duct	Excision of Meckel's diverticulum or omphalomesenteric duct
55680	Excision of Mullerian duct cyst	Excision of Mullerian duct cyst
64788	Excision of neurofibroma or neurolemmoma; cutaneous nerve	Excision of neuroma, neurofibroma, or neurolemmoma
64792	Excision of neurofibroma or neurolemmoma; extensive (including malignant type)	Excision of neuroma, neurofibroma, or neurolemmoma
64790	Excision of neurofibroma or neurolemmoma; major peripheral nerve	Excision of neuroma, neurofibroma, or neurolemmoma
64774	Excision of neuroma; cutaneous nerve, surgically identifiable	Excision of neuroma, neurofibroma, or neurolemmoma
64782	Excision of neuroma; hand or foot, except digital nerve	Excision of neuroma, neurofibroma, or neurolemmoma
64776	Excision of neuroma; digital nerve, 1 or both, same digit	Excision of neuroma, neurofibroma, or neurolemmoma
28080	Excision, interdigital (Morton) neuroma, single, each	Excision of neuroma, neurofibroma, or neurolemmoma
64786	Excision of neuroma; sciatic nerve	Excision of neuroma, neurofibroma, or neurolemmoma
64784	Excision of neuroma; major peripheral nerve, except sciatic	Excision of neuroma, neurofibroma, or neurolemmoma
24105	Excision, olecranon bursa	Excision of olecranon bursa

Continued		
Code	Code description	Procedure type
41823	Excision of osseous tuberosities, dentoalveolar structures	Excision of osseous tuberosities, dentoalveolar structures
15958	Excision, trochanteric pressure ulcer, in preparation for muscle or myocutaneous flap or skin graft closure; with ostectomy	Excision of pelvic pressure ulcer
15956	Excision, trochanteric pressure ulcer, in preparation for muscle or myocutaneous flap or skin graft closure;	Excision of pelvic pressure ulcer
15953	Excision, trochanteric pressure ulcer, with skin flap closure; with ostectomy	Excision of pelvic pressure ulcer
15952	Excision, trochanteric pressure ulcer, with skin flap closure;	Excision of pelvic pressure ulcer
15951	Excision, trochanteric pressure ulcer, with primary suture; with ostectomy	Excision of pelvic pressure ulcer
15950	Excision, trochanteric pressure ulcer, with primary suture;	Excision of pelvic pressure ulcer
15946	Excision, ischial pressure ulcer, with ostectomy, in preparation for muscle or myocutaneous flap or skin graft closure	Excision of pelvic pressure ulcer
15945	Excision, ischial pressure ulcer, with skin flap closure; with ostectomy	Excision of pelvic pressure ulcer
15944	Excision, ischial pressure ulcer, with skin flap closure;	Excision of pelvic pressure ulcer
15941	Excision, ischial pressure ulcer, with primary suture; with ostectomy (ischietomy)	Excision of pelvic pressure ulcer
15940	Excision, ischial pressure ulcer, with primary suture;	Excision of pelvic pressure ulcer
15937	Excision, sacral pressure ulcer, in preparation for muscle or myocutaneous flap or skin graft closure; with ostectomy	Excision of pelvic pressure ulcer
15936	Excision, sacral pressure ulcer, in preparation for muscle or myocutaneous flap or skin graft closure;	Excision of pelvic pressure ulcer
15935	Excision, sacral pressure ulcer, with skin flap closure; with ostectomy	Excision of pelvic pressure ulcer
15934	Excision, sacral pressure ulcer, with skin flap closure;	Excision of pelvic pressure ulcer
15933	Excision, sacral pressure ulcer, with primary suture; with ostectomy	Excision of pelvic pressure ulcer
15931	Excision, sacral pressure ulcer, with primary suture;	Excision of pelvic pressure ulcer
15922	Excision, coccygeal pressure ulcer, with coccygectomy; with flap closure	Excision of pelvic pressure ulcer
15920	Excision, coccygeal pressure ulcer, with coccygectomy; with primary suture	Excision of pelvic pressure ulcer
54112	Excision of penile plaque (Peyronie disease); with graft greater than 5 cm in length	Excision of penile plaque
54111	Excision of penile plaque (Peyronie disease); with graft to 5 cm in length	Excision of penile plaque
54110	Excision of penile plaque (Peyronie disease);	Excision of penile plaque
50290	Excision of perinephric cyst	Excision of perinephric cyst
11772	Excision of pilonidal cyst or sinus; complicated	Excision of pilonidal cyst or sinus
11771	Excision of pilonidal cyst or sinus; extensive	Excision of pilonidal cyst or sinus
27340	Excision, prepatellar bursa	Excision of prepatellar bursa
49215	Excision of presacral or sacrococcygeal tumor	Excision of presacral or sacrococcygeal tumor
24130	Excision, radial head	Excision of radial head
45135	Excision of rectal procidentia, with anastomosis; abdominal and perineal approach	Excision of rectal procidentia
45130	Excision of rectal procidentia, with anastomosis; perineal approach	Excision of rectal procidentia
45172	Excision of rectal tumor, transanal approach; including muscularis propria (ie, full thickness)	Excision of rectal tumor, transanal, transsacral, transcoccygeal
45171	Excision of rectal tumor, transanal approach; not including muscularis propria (ie, partial thickness)	Excision of rectal tumor, transanal, transsacral, transcoccygeal
45160	Excision of rectal tumor by proctotomy, transsacral or transcoccygeal approach	Excision of rectal tumor, transanal, transsacral, transcoccygeal
42450	Excision of sublingual gland	Excision of salivary tumor or salivary gland
42440	Excision of submandibular (submaxillary) gland	Excision of salivary tumor or salivary gland
42425	Excision of parotid tumor or parotid gland; total, en bloc removal with sacrifice of facial nerve	Excision of salivary tumor or salivary gland
42420	Excision of parotid tumor or parotid gland; total, with dissection and preservation of facial nerve	Excision of salivary tumor or salivary gland
42415	Excision of parotid tumor or parotid gland; lateral lobe, with dissection and preservation of facial nerve	Excision of salivary tumor or salivary gland
42410	Excision of parotid tumor or parotid gland; lateral lobe, without nerve dissection	Excision of salivary tumor or salivary gland
42426	Excision of parotid tumor or parotid gland; total, with unilateral radical neck dissection	Excision of salivary tumor or salivary gland
69145	Excision soft tissue lesion, external auditory canal	Excision of soft tissue lesion
22901	Excision, tumor, soft tissue of abdominal wall, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion

Continued		
Code	Code description	Procedure type
22900	Excision, tumor, soft tissue of abdominal wall, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
21933	Excision, tumor, soft tissue of back or flank, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
21932	Excision, tumor, soft tissue of back or flank, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
21014	Excision, tumor, soft tissue of face and scalp, subfascial (eg, subgaleal, intramuscular); 2 cm or greater	Excision of soft tissue lesion
21013	Excision, tumor, soft tissue of face and scalp, subfascial (eg, subgaleal, intramuscular); less than 2 cm	Excision of soft tissue lesion
28045	Excision, tumor, soft tissue of foot or toe, subfascial (eg, intramuscular); less than 1.5 cm	Excision of soft tissue lesion
28041	Excision, tumor, soft tissue of foot or toe, subfascial (eg, intramuscular); 1.5 cm or greater	Excision of soft tissue lesion
27619	Excision, tumor, soft tissue of leg or ankle area, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
27634	Excision, tumor, soft tissue of leg or ankle area, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
27339	Excision, tumor, soft tissue of thigh or knee area, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
27328	Excision, tumor, soft tissue of thigh or knee area, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
21554	Excision, tumor, soft tissue of neck or anterior thorax, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
21556	Excision, tumor, soft tissue of neck or anterior thorax, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
27045	Excision, tumor, soft tissue of pelvis and hip area, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
27048	Excision, tumor, soft tissue of pelvis and hip area, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
23076	Excision, tumor, soft tissue of shoulder area, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
23073	Excision, tumor, soft tissue of shoulder area, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
26116	Excision, tumor, soft tissue, or vascular malformation, of hand or finger, subfascial (eg, intramuscular); less than 1.5 cm	Excision of soft tissue lesion
25076	Excision, tumor, soft tissue of forearm and/or wrist area, subfascial (eg, intramuscular); less than 3 cm	Excision of soft tissue lesion
24076	Excision, tumor, soft tissue of upper arm or elbow area, subfascial (eg, intramuscular); less than 5 cm	Excision of soft tissue lesion
24073	Excision, tumor, soft tissue of upper arm or elbow area, subfascial (eg, intramuscular); 5 cm or greater	Excision of soft tissue lesion
25073	Excision, tumor, soft tissue of forearm and/or wrist area, subfascial (eg, intramuscular); 3 cm or greater	Excision of soft tissue lesion
26113	Excision, tumor, soft tissue, or vascular malformation, of hand or finger, subfascial (eg, intramuscular); 1.5 cm or greater	Excision of soft tissue lesion
54840	Excision of spermatocele, with or without epididymectomy	Excision of spermatocele, with or without epididymectomy
43610	Excision, local; ulcer or benign tumor of stomach	Excision of stomach ulcer or tumor
43611	Excision, local; malignant tumor of stomach	Excision of stomach ulcer or tumor
27345	Excision of synovial cyst of popliteal space (eg, Baker's cyst)	Excision of synovial cyst of popliteal space
26415	Excision of extensor tendon, with implantation of synthetic rod for delayed tendon graft, hand or finger, each rod	Excision of tendon of hand or finger
26390	Excision flexor tendon, with implantation of synthetic rod for delayed tendon graft, hand or finger, each rod	Excision of tendon of hand or finger
26170	Excision of tendon, palm, flexor or extensor, single, each tendon	Excision of tendon, hand
26180	Excision of tendon, finger, flexor or extensor, each tendon	Excision of tendon, hand
25109	Excision of tendon, forearm and/or wrist, flexor or extensor, each	Excision of tendon, hand
60281	Excision of thyroglossal duct cyst or sinus; recurrent	Excision of thyroglossal duct cyst or sinus
60280	Excision of thyroglossal duct cyst or sinus;	Excision of thyroglossal duct cyst or sinus
42860	Excision of tonsil tags	Excision of tonsil tags
31785	Excision of tracheal tumor or carcinoma; cervical	Excision of tracheal tumor or carcinoma
31786	Excision of tracheal tumor or carcinoma; thoracic	Excision of tracheal tumor or carcinoma

Continued		
Code	Code description	Procedure type
27062	Excision; trochanteric bursa or calcification	Excision of trochanteric bursa or calcification
51500	Excision of urachal cyst or sinus, with or without umbilical hernia repair	Excision of urachal cyst or sinus
53235	Excision of urethral diverticulum (separate procedure); male	Excision of urethral diverticulum
53230	Excision of urethral diverticulum (separate procedure); female	Excision of urethral diverticulum
57135	Excision of vaginal cyst or tumor	Excision of vaginal cyst or tumor
57130	Excision of vaginal septum	Excision of vaginal septum
25130	Excision or curettage of bone cyst or benign tumor of carpal bones;	Excision or curettage of bone cyst or benign tumor
23146	Excision or curettage of bone cyst or benign tumor of clavicle or scapula; with allograft	Excision or curettage of bone cyst or benign tumor
23145	Excision or curettage of bone cyst or benign tumor of clavicle or scapula; with autograft (includes obtaining graft)	Excision or curettage of bone cyst or benign tumor
23140	Excision or curettage of bone cyst or benign tumor of clavicle or scapula;	Excision or curettage of bone cyst or benign tumor
24116	Excision or curettage of bone cyst or benign tumor, humerus; with allograft	Excision or curettage of bone cyst or benign tumor
24115	Excision or curettage of bone cyst or benign tumor, humerus; with autograft (includes obtaining graft)	Excision or curettage of bone cyst or benign tumor
24110	Excision or curettage of bone cyst or benign tumor, humerus;	Excision or curettage of bone cyst or benign tumor
23156	Excision or curettage of bone cyst or benign tumor of proximal humerus; with allograft	Excision or curettage of bone cyst or benign tumor
23155	Excision or curettage of bone cyst or benign tumor of proximal humerus; with autograft (includes obtaining graft)	Excision or curettage of bone cyst or benign tumor
23150	Excision or curettage of bone cyst or benign tumor of proximal humerus;	Excision or curettage of bone cyst or benign tumor
25126	Excision or curettage of bone cyst or benign tumor of radius or ulna (excluding head or neck of radius and olecranon process); with allograft	Excision or curettage of bone cyst or benign tumor
25125	Excision or curettage of bone cyst or benign tumor of radius or ulna (excluding head or neck of radius and olecranon process); with autograft (includes obtaining graft)	Excision or curettage of bone cyst or benign tumor
25120	Excision or curettage of bone cyst or benign tumor of radius or ulna (excluding head or neck of radius and olecranon process);	Excision or curettage of bone cyst or benign tumor
24126	Excision or curettage of bone cyst or benign tumor of head or neck of radius or olecranon process; with allograft	Excision or curettage of bone cyst or benign tumor
24125	Excision or curettage of bone cyst or benign tumor of head or neck of radius or olecranon process; with autograft (includes obtaining graft)	Excision or curettage of bone cyst or benign tumor
24120	Excision or curettage of bone cyst or benign tumor of head or neck of radius or olecranon process;	Excision or curettage of bone cyst or benign tumor
49205	Excision or destruction - open, intra-abdominal tumors, cysts or endometriomas, 1 or more peritoneal, mesenteric, or retroperitoneal primary or secondary tumors; largest tumor greater than 10.0 cm diameter	Excision or destruction - intra-abdominal tumors, cysts or endometriomas
49204	Excision or destruction - open, intra-abdominal tumors, cysts or endometriomas, 1 or more peritoneal, mesenteric, or retroperitoneal primary or secondary tumors; largest tumor 5.1-10.0 cm diameter	Excision or destruction - intra-abdominal tumors, cysts or endometriomas
49203	Excision or destruction - open, intra-abdominal tumors, cysts or endometriomas, 1 or more peritoneal, mesenteric, or retroperitoneal primary or secondary tumors; largest tumor 5 cm diameter or less	Excision or destruction - intra-abdominal tumors, cysts or endometriomas
42870	Excision or destruction lingual tonsil, any method (separate procedure)	Excision or destruction of lingual tonsil, any method (separate procedure)
65426	Excision or transposition of pterygium; with graft	Excision or transposition of pterygium
65420	Excision or transposition of pterygium; without graft	Excision or transposition of pterygium
50280	Excision or unroofing of cyst(s) of kidney	Excision or unroofing of cyst(s) of kidney
31780	Excision tracheal stenosis and anastomosis; cervical	Excision tracheal stenosis and anastomosis
31781	Excision tracheal stenosis and anastomosis; cervicothoracic	Excision tracheal stenosis and anastomosis
33269	Exclusion of left atrial appendage, thoracoscopic, any method (eg, excision, isolation via stapling, oversewing, ligation, plication, clip)	Exclusion of left atrial appendage

Continued		
Code	Code description	Procedure type
33267	Exclusion of left atrial appendage - open, any method (eg, excision, isolation via stapling, oversewing, ligation, plication, clip)	Exclusion of left atrial appendage
44700	Exclusion of small intestine from pelvis by mesh or other prosthesis, or native tissue (eg, bladder or omentum)	Exclusion of small intestine from pelvis by mesh or other prosthesis, or native tissue
53220	Excision or fulguration of carcinoma of urethra	Exclusion or fulguration of urethra
53270	Excision or fulguration; Skene's glands	Exclusion or fulguration of urethra
53265	Excision or fulguration; urethral caruncle	Exclusion or fulguration of urethra
53260	Excision or fulguration; urethral polyp(s), distal urethra	Exclusion or fulguration of urethra
53275	Excision or fulguration; urethral prolapse	Exclusion or fulguration of urethra
65112	Exenteration of orbit (does not include skin graft), removal of orbital contents; with therapeutic removal of bone	Exenteration of orbit
65110	Exenteration of orbit (does not include skin graft), removal of orbital contents; only	Exenteration of orbit
65114	Exenteration of orbit (does not include skin graft), removal of orbital contents; with muscle or myocutaneous flap	Exenteration of orbit
47700	Exploration for congenital atresia of bile ducts, without repair, with or without liver biopsy, with or without cholangiography	Exploration for congenital atresia of bile ducts, without repair
35840	Exploration for postoperative hemorrhage, thrombosis or infection; abdomen	Exploration for postoperative hemorrhage, thrombosis or infection
35820	Exploration for postoperative hemorrhage, thrombosis or infection; chest	Exploration for postoperative hemorrhage, thrombosis or infection
35860	Exploration for postoperative hemorrhage, thrombosis or infection; extremity	Exploration for postoperative hemorrhage, thrombosis or infection
35800	Exploration for postoperative hemorrhage, thrombosis or infection; neck	Exploration for postoperative hemorrhage, thrombosis or infection
35701	Exploration (not followed by surgical repair), with or without lysis of artery; carotid artery	Exploration of artery without surgical repair
35741	Exploration (not followed by surgical repair), with or without lysis of artery; popliteal artery	Exploration of artery without surgical repair
35721	Exploration (not followed by surgical repair), with or without lysis of artery; femoral artery	Exploration of artery without surgical repair
35703	Exploration not followed by surgical repair, artery; lower extremity (eg, common femoral, deep femoral, superficial femoral, popliteal, tibial, peroneal)	Exploration of artery without surgical repair
35702	Exploration not followed by surgical repair, artery; upper extremity (eg, axillary, brachial, radial, ulnar)	Exploration of artery without surgical repair
35761	Exploration (not followed by surgical repair), with or without lysis of artery; other vessels	Exploration of artery without surgical repair
61334	Exploration of orbit (transcranial approach); with removal of foreign body	Exploration of orbit (transcranial approach)
61333	Exploration of orbit (transcranial approach); with removal of lesion	Exploration of orbit (transcranial approach)
61332	Exploration of orbit (transcranial approach); with biopsy	Exploration of orbit (transcranial approach)
20102	Exploration of penetrating wound (separate procedure); abdomen/flank/back	Exploration of penetrating wound
20101	Exploration of penetrating wound (separate procedure); chest	Exploration of penetrating wound
20103	Exploration of penetrating wound (separate procedure); extremity	Exploration of penetrating wound
20100	Exploration of penetrating wound (separate procedure); neck	Exploration of penetrating wound
22830	Exploration of spinal fusion	Exploration of spinal fusion
45563	Exploration, repair, and presacral drainage for rectal injury; with colostomy	Exploration, repair, and presacral drainage for rectal injury
45562	Exploration, repair, and presacral drainage for rectal injury;	Exploration, repair, and presacral drainage for rectal injury
49010	Exploration, retroperitoneal area with or without biopsy(s) (separate procedure)	Exploration, retroperitoneal area with or without biopsy(s)
49000	Exploratory laparotomy, exploratory celiotomy with or without biopsy(s) (separate procedure)	Exploratory laparotomy
55860	Exposure of prostate, any approach, for insertion of radioactive substance;	Exposure of prostate, any approach, for insertion of radioactive substance
55865	Exposure of prostate, any approach, for insertion of radioactive substance; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes	Exposure of prostate, any approach, for insertion of radioactive substance

Continued		
Code	Code description	Procedure type
55862	Exposure of prostate, any approach, for insertion of radioactive substance; with lymph node biopsy(s) (limited pelvic lymphadenectomy)	Exposure of prostate, any approach, for insertion of radioactive substance
26437	Realignment of extensor tendon, hand, each tendon	Extensor tendon centralization, hand
32540	Extrapleural enucleation of empyema (empyemectomy)	Extrapleural enucleation of empyema
15825	Rhytidectomy; neck with platysmal tightening (platysmal flap, P-flap)	Facelift
15829	Rhytidectomy; superficial musculoaponeurotic system (SMAS) flap	Facelift
15828	Rhytidectomy; cheek, chin, and neck	Facelift
15826	Rhytidectomy; glabellar frown lines	Facelift
15824	Rhytidectomy; forehead	Facelift
64866	Anastomosis; facial-spinal accessory	Facial nerve reconstruction or repair
15845	Graft for facial nerve paralysis; regional muscle transfer	Facial nerve reconstruction or repair
15842	Graft for facial nerve paralysis; free muscle flap by microsurgical technique	Facial nerve reconstruction or repair
15841	Graft for facial nerve paralysis; free muscle graft (including obtaining graft)	Facial nerve reconstruction or repair
15840	Graft for facial nerve paralysis; free fascia graft (including obtaining fascia)	Facial nerve reconstruction or repair
69745	Suture facial nerve, intratemporal, with or without graft or decompression; including medial to geniculate ganglion	Facial nerve reconstruction or repair
69740	Suture facial nerve, intratemporal, with or without graft or decompression; lateral to geniculate ganglion	Facial nerve reconstruction or repair
20922	Fascia lata graft; by incision and area exposure, complex or sheet	Fascia lata graft
20920	Fascia lata graft; by stripper	Fascia lata graft
28062	Fasciectomy, plantar fascia; radical (separate procedure)	Fasciectomy or fasciotomy
28060	Fasciectomy, plantar fascia; partial (separate procedure)	Fasciectomy or fasciotomy
28008	Fasciotomy, foot and/or toe	Fasciectomy or fasciotomy
27305	Fasciotomy, iliotibial (tenotomy) - open	Fasciectomy or fasciotomy
27057	Decompression fasciotomy(ies), pelvic (buttock) compartment(s) (eg, gluteus medius-minimus, gluteus maximus, iliopsoas, and/or tensor fascia lata muscle) with debridement of nonviable muscle, unilateral	Fasciectomy or fasciotomy
27027	Decompression fasciotomy(ies), pelvic (buttock) compartment(s) (eg, gluteus medius-minimus, gluteus maximus, iliopsoas, and/or tensor fascia lata muscle), unilateral	Fasciectomy or fasciotomy
27025	Fasciectomy, hip or thigh, any type	Fasciectomy or fasciotomy
26123	Fasciectomy, partial palmar with release of single digit including proximal interphalangeal joint, with or without Z-plasty, other local tissue rearrangement, or skin grafting (includes obtaining graft);	Fasciectomy or fasciotomy
26121	Fasciectomy, palm only, with or without Z-plasty, other local tissue rearrangement, or skin grafting (includes obtaining graft)	Fasciectomy or fasciotomy
26045	Fasciotomy, palmar (eg, Dupuytren's contracture); open, partial	Fasciectomy or fasciotomy
69820	Fenestration semicircular canal	Fenestration semicircular canal
58976	Gamete, zygote, or embryo intrafallopian transfer; any method	Fertility procedures
59897	Unlisted fetal invasive procedure, including ultrasound guidance, when performed	Fetal procedure
59076	Fetal shunt placement, including ultrasound guidance	Fetal shunt placement, including ultrasound guidance
14350	Filletted finger or toe flap, including preparation of recipient site	Filletted finger or toe flap, including preparation of recipient site
58760	Fimbrioplasty	Fimbrioplasty
46200	Fissurectomy, including sphincterotomy, when performed	Fissurectomy
66172	Fistulization of sclera for glaucoma; trabeculectomy ab externo with scarring from previous ocular surgery or trauma (includes injection of antifibrotic agents)	Fistulization of sclera for glaucoma
66170	Fistulization of sclera for glaucoma; trabeculectomy ab externo in absence of previous surgery	Fistulization of sclera for glaucoma
66165	Fistulization of sclera for glaucoma; iridencleisis or iridotaxis	Fistulization of sclera for glaucoma
66160	Fistulization of sclera for glaucoma; sclerectomy with punch or scissors, with iridectomy	Fistulization of sclera for glaucoma
66155	Fistulization of sclera for glaucoma; thermocauterization with iridectomy	Fistulization of sclera for glaucoma
66150	Fistulization of sclera for glaucoma; trephination with iridectomy	Fistulization of sclera for glaucoma
54620	Fixation of contralateral testis (separate procedure)	Fixation of contralateral testis
41500	Fixation of tongue, mechanical, other than suture (eg, K-wire)	Fixation of tongue, mechanical
20973	Free osteocutaneous flap with microvascular anastomosis; great toe with web space	Flap reconstruction
20972	Free osteocutaneous flap with microvascular anastomosis; metatarsal	Flap reconstruction

Continued		
Code	Code description	Procedure type
15758	Free fascial flap with microvascular anastomosis	Flap reconstruction
15757	Free skin flap with microvascular anastomosis	Flap reconstruction
15756	Free muscle or myocutaneous flap with microvascular anastomosis	Flap reconstruction
15750	Flap; neurovascular pedicle	Flap reconstruction
15740	Flap; island pedicle requiring identification and dissection of an anatomically named axial vessel	Flap reconstruction
15736	Muscle, myocutaneous, or fasciocutaneous flap; upper extremity	Flap reconstruction
15734	Muscle, myocutaneous, or fasciocutaneous flap; trunk	Flap reconstruction
15733	Muscle, myocutaneous, or fasciocutaneous flap; head and neck with named vascular pedicle (ie, buccinators, genioglossus, temporalis, masseter, sternocleidomastoid, levator scapulae)	Flap reconstruction
15732	Muscle, myocutaneous, or fasciocutaneous flap; head and neck (eg, temporalis, masseter muscle, sternocleidomastoid, levator scapulae)	Flap reconstruction
15731	Forehead flap with preservation of vascular pedicle (eg, axial pattern flap, paramedian forehead flap)	Flap reconstruction
15730	Midface flap (ie, zygomaticofacial flap) with preservation of vascular pedicle(s)	Flap reconstruction
15650	Transfer, intermediate, of any pedicle flap (eg, abdomen to wrist, Walking tube), any location	Flap reconstruction
15738	Muscle, myocutaneous, or fasciocutaneous flap; lower extremity	Flap reconstruction
15630	Delay of flap or sectioning of flap (division and inset); at eyelids, nose, ears, or lips	Flap reconstruction
15620	Delay of flap or sectioning of flap (division and inset); at forehead, cheeks, chin, neck, axillae, genitalia, hands, or feet	Flap reconstruction
15610	Delay of flap or sectioning of flap (division and inset); at scalp, arms, or legs	Flap reconstruction
15600	Delay of flap or sectioning of flap (division and inset); at trunk	Flap reconstruction
15576	Formation of direct or tubed pedicle, with or without transfer; eyelids, nose, ears, lips, or intraoral	Flap reconstruction
15574	Formation of direct or tubed pedicle, with or without transfer; forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands or feet	Flap reconstruction
15572	Formation of direct or tubed pedicle, with or without transfer; scalp, arms, or legs	Flap reconstruction
15570	Formation of direct or tubed pedicle, with or without transfer; trunk	Flap reconstruction
20970	Free osteocutaneous flap with microvascular anastomosis; iliac crest	Flap reconstruction
20969	Free osteocutaneous flap with microvascular anastomosis; other than iliac crest, metatarsal, or great toe	Flap reconstruction
20962	Bone graft with microvascular anastomosis; other than fibula, iliac crest, or metatarsal	Flap reconstruction
20957	Bone graft with microvascular anastomosis; metatarsal	Flap reconstruction
20956	Bone graft with microvascular anastomosis; iliac crest	Flap reconstruction
20955	Bone graft with microvascular anastomosis; fibula	Flap reconstruction
49904	Omental flap, extra-abdominal (eg, for reconstruction of sternal and chest wall defects)	Flap reconstruction
49906	Free omental flap with microvascular anastomosis	Flap reconstruction
25316	Flexor origin slide (eg, for cerebral palsy, Volkmann contracture), forearm and/or wrist; with tendon(s) transfer	Flexor origin slide, forearm and/or wrist
25315	Flexor origin slide (eg, for cerebral palsy, Volkmann contracture), forearm and/or wrist;	Flexor origin slide, forearm and/or wrist
24331	Flexor-plasty, elbow (eg, Steindler type advancement); with extensor advancement	Flexor-plasty, elbow
24330	Flexor-plasty, elbow (eg, Steindler type advancement);	Flexor-plasty, elbow
58970	Follicle puncture for oocyte retrieval, any method	Follicle puncture for oocyte retrieval
30930	Fracture nasal inferior turbinate(s), therapeutic	Fracture of nasal inferior turbinate(s)
43496	Free jejunum transfer with microvascular anastomosis	Free jejunum transfer with microvascular anastomosis
41520	Frenoplasty (surgical revision of frenum, eg, with Z-plasty)	Frenoplasty
43888	Gastric restrictive procedure - open; removal and replacement of subcutaneous port component only	Gastric bypass
43886	Gastric restrictive procedure - open; revision of subcutaneous port component only	Gastric bypass
43847	Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption	Gastric bypass
43846	Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy	Gastric bypass

Continued		
Code	Code description	Procedure type
43845	Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption (biliopancreatic diversion with duodenal switch)	Gastric bypass
43843	Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty	Gastric bypass
43842	Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty	Gastric bypass
43775	Laparoscopy, surgical, gastric restrictive procedure; longitudinal gastrectomy (ie, sleeve gastrectomy)	Gastric bypass
43887	Gastric restrictive procedure - open; removal of subcutaneous port component only	Gastric bypass
43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	Gastric bypass
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	Gastric bypass
43634	Gastrectomy, partial, distal; with formation of intestinal pouch	Gastric bypass
43633	Gastrectomy, partial, distal; with Roux-en-Y reconstruction	Gastric bypass
43632	Gastrectomy, partial, distal; with gastrojejunostomy	Gastric bypass
43631	Gastrectomy, partial, distal; with gastroduodenostomy	Gastric bypass
43622	Gastrectomy, total; with formation of intestinal pouch, any type	Gastric bypass
43621	Gastrectomy, total; with Roux-en-Y reconstruction	Gastric bypass
43620	Gastrectomy, total; with esophagoenterostomy	Gastric bypass
27687	Gastrocnemius recession (eg, Strayer procedure)	Gastrocnemius recession
43810	Gastroduodenostomy	Gastroduodenostomy
43361	Gastrointestinal reconstruction for previous esophagectomy, for obstructing esophageal lesion or fistula, or for previous esophageal exclusion; with colon interposition or small intestine reconstruction, including intestine mobilization, preparation, and anastomosis(es)	Gastrointestinal reconstruction for previous esophagectomy
43360	Gastrointestinal reconstruction for previous esophagectomy, for obstructing esophageal lesion or fistula, or for previous esophageal exclusion; with stomach, with or without pyloroplasty	Gastrointestinal reconstruction for previous esophagectomy
43825	Gastrojejunostomy; with vagotomy, any type	Gastrojejunostomy
43820	Gastrojejunostomy; without vagotomy	Gastrojejunostomy
43840	Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury	Gastrorrhaphy, suture of perforated duodenal or gastric ulcer, wound, or injury
43832	Gastrostomy - open; with construction of gastric tube (eg, Janeway procedure)	Gastrostomy
43831	Gastrostomy - open; neonatal, for feeding	Gastrostomy
43830	Gastrostomy - open; without construction of gastric tube (eg, Stamm procedure) (separate procedure)	Gastrostomy
43502	Gastrotomy; with suture repair of pre-existing esophagogastric laceration (eg, Mallory-Weiss)	Gastrotomy
43501	Gastrotomy; with suture repair of bleeding ulcer	Gastrotomy
43500	Gastrotomy; with exploration or foreign body removal	Gastrotomy
56805	Clitoroplasty for intersex state	Gender affirming procedure, clitoroplasty
55980	Intersex surgery; female to male	Gender affirming procedure, female to male
55970	Intersex surgery; male to female	Gender affirming procedure, male to female
57335	Vaginoplasty for intersex state	Gender affirming procedure, vaginoplasty
21123	Genioplasty; sliding, augmentation with interpositional bone grafts (includes obtaining autografts)	Genioplasty
21122	Genioplasty; sliding osteotomies, 2 or more osteotomies (eg, wedge excision or bone wedge reversal for asymmetrical chin)	Genioplasty
21121	Genioplasty; sliding osteotomy, single piece	Genioplasty
21120	Genioplasty; augmentation (autograft, allograft, prosthetic material)	Genioplasty
41872	Gingivoplasty, each quadrant (specify)	Gingivoplasty
41155	Glossectomy; composite procedure with resection floor of mouth, mandibular resection, and radical neck dissection (Commando type)	Glossectomy
41153	Glossectomy; composite procedure with resection floor of mouth, with suprahyoid neck dissection	Glossectomy

Continued		
Code	Code description	Procedure type
41145	Glossectomy; complete or total, with or without tracheostomy, with unilateral radical neck dissection	Glossectomy
41135	Glossectomy; partial, with unilateral radical neck dissection	Glossectomy
41150	Glossectomy; composite procedure with resection floor of mouth and mandibular resection, without radical neck dissection	Glossectomy
41140	Glossectomy; complete or total, with or without tracheostomy, without radical neck dissection	Glossectomy
41130	Glossectomy; hemiglossectomy	Glossectomy
41120	Glossectomy; less than 1/2 tongue	Glossectomy
65820	Goniotomy	Goniotomy
46753	Graft (Thiersch operation) for rectal incontinence and/or prolapse	Graft (Thiersch operation) for rectal incontinence and/or prolapse
21235	Graft; ear cartilage, autogenous, to nose or ear (includes obtaining graft)	Graft of bone or cartilage to face
21230	Graft; rib cartilage, autogenous, to face, chin, nose or ear (includes obtaining graft)	Graft of bone or cartilage to face
21215	Graft, bone; mandible (includes obtaining graft)	Graft of bone or cartilage to face
21210	Graft, bone; nasal, maxillary or malar areas (includes obtaining graft)	Graft of bone or cartilage to face
15773	Grafting of autologous fat harvested by liposuction technique to face, eyelids, mouth, neck, ears, orbits, genitalia, hands, and/or feet; 25 cc or less injectate	Graft of fat or other tissue
15771	Grafting of autologous fat harvested by liposuction technique to trunk, breasts, scalp, arms, and/or legs; 50 cc or less injectate	Graft of fat or other tissue
15770	Graft; derma-fat-fascia	Graft of fat or other tissue
15769	Grafting of autologous soft tissue, other, harvested by direct excision (eg, fat, dermis, fascia)	Graft of fat or other tissue
15760	Graft; composite (eg, full thickness of external ear or nasal ala), including primary closure, donor area	Graft of fat or other tissue
26556	Transfer, free toe joint, with microvascular anastomosis	Hand replantation
26555	Transfer, finger to another position without microvascular anastomosis	Hand replantation
26554	Transfer, toe-to-hand with microvascular anastomosis; other than great toe, double	Hand replantation
26553	Transfer, toe-to-hand with microvascular anastomosis; other than great toe, single	Hand replantation
26551	Transfer, toe-to-hand with microvascular anastomosis; great toe wrap-around with bone graft	Hand replantation
26373	Repair or advancement of profundus tendon, with intact superficialis tendon; secondary without free graft, each tendon	Hand tendon repair
26372	Repair or advancement of profundus tendon, with intact superficialis tendon; secondary with free graft (includes obtaining graft), each tendon	Hand tendon repair
26370	Repair or advancement of profundus tendon, with intact superficialis tendon; primary, each tendon	Hand tendon repair
26358	Repair or advancement, flexor tendon, in zone 2 digital flexor tendon sheath (eg, no man's land); secondary, with free graft (includes obtaining graft), each tendon	Hand tendon repair
26357	Repair or advancement, flexor tendon, in zone 2 digital flexor tendon sheath (eg, no man's land); secondary, without free graft, each tendon	Hand tendon repair
26356	Repair or advancement, flexor tendon, in zone 2 digital flexor tendon sheath (eg, no man's land); primary, without free graft, each tendon	Hand tendon repair
26352	Repair or advancement, flexor tendon, not in zone 2 digital flexor tendon sheath (eg, no man's land); secondary with free graft (includes obtaining graft), each tendon	Hand tendon repair
26350	Repair or advancement, flexor tendon, not in zone 2 digital flexor tendon sheath (eg, no man's land); primary or secondary without free graft, each tendon	Hand tendon repair
26499	Correction claw finger, other methods	Correction claw finger, other methods
26510	Cross intrinsic transfer, each tendon	Hand, cross intrinsic transfer
26596	Excision of constricting ring of finger, with multiple Z-plasties	Hand, soft tissue reconstruction
15040	Harvest of skin for tissue cultured skin autograft, 100 sq cm or less	Harvest of skin for tissue cultured skin autograft
33935	Heart-lung transplant with recipient cardiectomy-pneumonectomy	Heart and lung transplant
33945	Heart transplant, with or without recipient cardiectomy	Heart transplant
33940	Donor cardiectomy (including cold preservation)	Heart transplant
49655	Laparoscopy, surgical, repair; incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated	Hernia repair, abdominal - laparoscopic
49656	Laparoscopy, surgical, repair; recurrent incisional hernia (includes mesh insertion, when performed); reducible	Hernia repair, abdominal - laparoscopic

Continued		
Code	Code description	Procedure type
49657	Laparoscopy, surgical, repair, recurrent incisional hernia (includes mesh insertion, when performed); incarcerated or strangulated	Hernia repair, abdominal - laparoscopic
49653	Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion, when performed); incarcerated or strangulated	Hernia repair, abdominal - laparoscopic
49652	Laparoscopy, surgical, repair, ventral, umbilical, spigelian or epigastric hernia (includes mesh insertion, when performed); reducible	Hernia repair, abdominal - laparoscopic
49654	Laparoscopy, surgical, repair, incisional hernia (includes mesh insertion, when performed); reducible	Hernia repair, abdominal - laparoscopic
49572	Repair epigastric hernia (eg, preperitoneal fat); incarcerated or strangulated	Hernia repair, abdominal - open
49590	Repair spigelian hernia	Hernia repair, abdominal - open
49570	Repair epigastric hernia (eg, preperitoneal fat); reducible (separate procedure)	Hernia repair, abdominal - open
49565	Repair recurrent incisional or ventral hernia; reducible	Hernia repair, abdominal - open
49580	Repair umbilical hernia, younger than age 5 years; reducible	Hernia repair, abdominal - open
49560	Repair initial incisional or ventral hernia; reducible	Hernia repair, abdominal - open
49587	Repair umbilical hernia, age 5 years or older; incarcerated or strangulated	Hernia repair, abdominal - open
49566	Repair recurrent incisional or ventral hernia; incarcerated or strangulated	Hernia repair, abdominal - open
49585	Repair umbilical hernia, age 5 years or older; reducible	Hernia repair, abdominal - open
49561	Repair initial incisional or ventral hernia; incarcerated or strangulated	Hernia repair, abdominal - open
49582	Repair umbilical hernia, younger than age 5 years; incarcerated or strangulated	Hernia repair, abdominal - open
49651	Laparoscopy, surgical; repair recurrent inguinal hernia	Hernia repair, inguinal/femoral - laparoscopic
49650	Laparoscopy, surgical; repair initial inguinal hernia	Hernia repair, inguinal/femoral - laparoscopic
49557	Repair recurrent femoral hernia; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49555	Repair recurrent femoral hernia; reducible	Hernia repair, inguinal/femoral - open
49553	Repair initial femoral hernia, any age; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49550	Repair initial femoral hernia, any age; reducible	Hernia repair, inguinal/femoral - open
49525	Repair inguinal hernia, sliding, any age	Hernia repair, inguinal/femoral - open
49521	Repair recurrent inguinal hernia, any age; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49520	Repair recurrent inguinal hernia, any age; reducible	Hernia repair, inguinal/femoral - open
49507	Repair initial inguinal hernia, age 5 years or older; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49505	Repair initial inguinal hernia, age 5 years or older; reducible	Hernia repair, inguinal/femoral - open
49501	Repair initial inguinal hernia, age 6 months to younger than 5 years, with or without hydrocelectomy; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49500	Repair initial inguinal hernia, age 6 months to younger than 5 years, with or without hydrocelectomy; reducible	Hernia repair, inguinal/femoral - open
49496	Repair, initial inguinal hernia, full term infant younger than age 6 months, or preterm infant older than 50 weeks postconception age and younger than age 6 months at the time of surgery, with or without hydrocelectomy; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49495	Repair, initial inguinal hernia, full term infant younger than age 6 months, or preterm infant older than 50 weeks postconception age and younger than age 6 months at the time of surgery, with or without hydrocelectomy; reducible	Hernia repair, inguinal/femoral - open
49492	Repair, initial inguinal hernia, preterm infant (younger than 37 weeks gestation at birth), performed from birth up to 50 weeks postconception age, with or without hydrocelectomy; incarcerated or strangulated	Hernia repair, inguinal/femoral - open
49491	Repair, initial inguinal hernia, preterm infant (younger than 37 weeks gestation at birth), performed from birth up to 50 weeks postconception age, with or without hydrocelectomy; reducible	Hernia repair, inguinal/femoral - open
49540	Repair lumbar hernia	Hernia repair, lumbar
21685	Hyoid myotomy and suspension	Hyoid myotomy and suspension
61548	Hypophysectomy or excision of pituitary tumor, transnasal or transeptal approach, nonstereotactic	Hypophysectomy or excision of pituitary tumor
54352	Repair of hypospadias cripple requiring extensive dissection and excision of previously constructed structures including re-release of chordee and reconstruction of urethra and penis by use of local skin as grafts and island flaps and skin brought in as flaps or grafts	Hypospadias repair

Continued		
Code	Code description	Procedure type
54348	Repair of hypospadias complications (ie, fistula, stricture, diverticula); requiring extensive dissection and urethroplasty with flap, patch or tubed graft (includes urinary diversion)	Hypospadias repair
54344	Repair of hypospadias complications (ie, fistula, stricture, diverticula); requiring mobilization of skin flaps and urethroplasty with flap or patch graft	Hypospadias repair
54340	Repair of hypospadias complications (ie, fistula, stricture, diverticula); by closure, incision, or excision, simple	Hypospadias repair
54336	1-stage perineal hypospadias repair requiring extensive dissection to correct chordee and urethroplasty by use of skin graft tube and/or island flap	Hypospadias repair
54332	1-stage proximal penile or penoscrotal hypospadias repair requiring extensive dissection to correct chordee and urethroplasty by use of skin graft tube and/or island flap	Hypospadias repair
54328	1-stage distal hypospadias repair (with or without chordee or circumcision); with extensive dissection to correct chordee and urethroplasty with local skin flaps, skin graft patch, and/or island flap	Hypospadias repair
54326	1-stage distal hypospadias repair (with or without chordee or circumcision); with urethroplasty by local skin flaps and mobilization of urethra	Hypospadias repair
54324	1-stage distal hypospadias repair (with or without chordee or circumcision); with urethroplasty by local skin flaps (eg, flip-flap, prepuccial flap)	Hypospadias repair
54322	1-stage distal hypospadias repair (with or without chordee or circumcision); with simple meatal advancement (eg, Magpi, V-flap)	Hypospadias repair
54318	Urethroplasty for third stage hypospadias repair to release penis from scrotum (eg, third stage Cecil repair)	Hypospadias repair
54316	Urethroplasty for second stage hypospadias repair (including urinary diversion) with free skin graft obtained from site other than genitalia	Hypospadias repair
54312	Urethroplasty for second stage hypospadias repair (including urinary diversion); greater than 3 cm	Hypospadias repair
54308	Urethroplasty for second stage hypospadias repair (including urinary diversion); less than 3 cm	Hypospadias repair
58575	Laparoscopy, surgical, total hysterectomy for resection of malignancy (tumor debulking), with omentectomy including salpingo-oophorectomy, unilateral or bilateral, when performed	Hysterectomy - laparoscopic or vaginal
58573	Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58572	Laparoscopy, surgical, with total hysterectomy, for uterus greater than 250 g;	Hysterectomy - laparoscopic or vaginal
58571	Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58570	Laparoscopy, surgical, with total hysterectomy, for uterus 250 g or less;	Hysterectomy - laparoscopic or vaginal
58554	Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58553	Laparoscopy, surgical, with vaginal hysterectomy, for uterus greater than 250 g;	Hysterectomy - laparoscopic or vaginal
58661	Laparoscopy, surgical; with removal of adnexal structures (partial or total oophorectomy and/or salpingectomy)	Hysterectomy - laparoscopic or vaginal
58552	Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58550	Laparoscopy, surgical, with vaginal hysterectomy, for uterus 250 g or less;	Hysterectomy - laparoscopic or vaginal
58548	Laparoscopy, surgical, with radical hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with removal of tube(s) and ovary(s), if performed	Hysterectomy - laparoscopic or vaginal
58546	Laparoscopy, surgical, myomectomy, excision; 5 or more intramural myomas and/or intramural myomas with total weight greater than 250 g	Hysterectomy - laparoscopic or vaginal
58545	Laparoscopy, surgical, myomectomy, excision; 1 to 4 intramural myomas with total weight of 250 g or less and/or removal of surface myomas	Hysterectomy - laparoscopic or vaginal
58544	Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58543	Laparoscopy, surgical, supracervical hysterectomy, for uterus greater than 250 g;	Hysterectomy - laparoscopic or vaginal
58542	Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58541	Laparoscopy, surgical, supracervical hysterectomy, for uterus 250 g or less;	Hysterectomy - laparoscopic or vaginal

Continued		
Code	Code description	Procedure type
58180	Supracervical abdominal hysterectomy (subtotal hysterectomy), with or without removal of tube(s), with or without removal of ovary(s)	Hysterectomy - open abdominal
58152	Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s); with colpo-urethrocytopexy (eg, Marshall-Marchetti-Krantz, Burch)	Hysterectomy - open abdominal
58150	Total abdominal hysterectomy (corpus and cervix), with or without removal of tube(s), with or without removal of ovary(s);	Hysterectomy - open abdominal
58294	Vaginal hysterectomy, for uterus greater than 250 g; with repair of enterocele	Hysterectomy - laparoscopic or vaginal
58293	Vaginal hysterectomy, for uterus greater than 250 g; with colpo- urethrocytopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control	Hysterectomy - laparoscopic or vaginal
58292	Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s), with repair of enterocele	Hysterectomy - laparoscopic or vaginal
58290	Vaginal hysterectomy, for uterus greater than 250 g;	Hysterectomy - laparoscopic or vaginal
58285	Vaginal hysterectomy, radical (Schauta type operation)	Hysterectomy - laparoscopic or vaginal
58280	Vaginal hysterectomy, with total or partial vaginectomy; with repair of enterocele	Hysterectomy - laparoscopic or vaginal
58291	Vaginal hysterectomy, for uterus greater than 250 g; with removal of tube(s) and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58275	Vaginal hysterectomy, with total or partial vaginectomy;	Hysterectomy - laparoscopic or vaginal
58270	Vaginal hysterectomy, for uterus 250 g or less; with repair of enterocele	Hysterectomy - laparoscopic or vaginal
58267	Vaginal hysterectomy, for uterus 250 g or less; with colpo-urethrocytopexy (Marshall-Marchetti-Krantz type, Pereyra type) with or without endoscopic control	Hysterectomy - laparoscopic or vaginal
58263	Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s), with repair of enterocele	Hysterectomy - laparoscopic or vaginal
58262	Vaginal hysterectomy, for uterus 250 g or less; with removal of tube(s), and/or ovary(s)	Hysterectomy - laparoscopic or vaginal
58260	Vaginal hysterectomy, for uterus 250 g or less;	Hysterectomy - laparoscopic or vaginal
58210	Radical abdominal hysterectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy), with or without removal of tube(s), with or without removal of ovary(s)	Hysterectomy, extended - open
58200	Total abdominal hysterectomy, including partial vaginectomy, with para- aortic and pelvic lymph node sampling, with or without removal of tube(s), with or without removal of ovary(s)	Hysterectomy, extended - open
58540	Hysteroplasty, repair of uterine anomaly (Strassman type)	Hysteroplasty, repair of uterine anomaly (Strassman type)
59350	Hysterorrhaphy of ruptured uterus	Hysterorrhaphy of ruptured uterus
58520	Hysterorrhaphy, repair of ruptured uterus (nonobstetrical)	Hysterorrhaphy of ruptured uterus
59100	Hysterotomy, abdominal (eg, for hydatidiform mole, abortion)	Hysterotomy
33275	Transcatheter removal of permanent leadless pacemaker, right ventricular	Implantable cardiac device procedures
33274	Transcatheter insertion or replacement of permanent leadless pacemaker, right ventricular, including imaging guidance (eg, fluoroscopy, venous ultrasound, ventriculography, femoral venography) and device evaluation (eg, interrogation or programming), when performed	Implantable cardiac device procedures
33249	Insertion or replacement of permanent pacing cardioverter-defibrillator system with transvenous lead(s), single or dual chamber	Implantable cardiac device procedures
33244	Removal of single or dual chamber pacing cardioverter-defibrillator electrode(s); by transvenous extraction	Implantable cardiac device procedures
33243	Removal of single or dual chamber pacing cardioverter-defibrillator electrode(s); by thoracotomy	Implantable cardiac device procedures
33241	Removal of pacing cardioverter-defibrillator pulse generator only	Implantable cardiac device procedures
33240	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing single lead	Implantable cardiac device procedures
33237	Removal of permanent epicardial pacemaker and electrodes by thoracotomy; dual lead system	Implantable cardiac device procedures
33236	Removal of permanent epicardial pacemaker and electrodes by thoracotomy; single lead system, atrial or ventricular	Implantable cardiac device procedures
33235	Removal of transvenous pacemaker electrode(s); dual lead system	Implantable cardiac device procedures
33233	Removal of permanent pacemaker pulse generator only	Implantable cardiac device procedures
33231	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing multiple leads	Implantable cardiac device procedures
33230	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing dual leads	Implantable cardiac device procedures
33229	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system	Implantable cardiac device procedures

Continued		
Code	Code description	Procedure type
33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system	Implantable cardiac device procedures
33227	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system	Implantable cardiac device procedures
33226	Repositioning of previously implanted cardiac venous system (left ventricular) electrode (including removal, insertion and/or replacement of existing generator)	Implantable cardiac device procedures
33234	Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular	Implantable cardiac device procedures
33224	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or pacing cardioverter-defibrillator pulse generator (including revision of pocket, removal, insertion, and/or replacement of existing generator)	Implantable cardiac device procedures
33223	Relocation of skin pocket for cardioverter-defibrillator	Implantable cardiac device procedures
33222	Relocation of skin pocket for pacemaker	Implantable cardiac device procedures
33221	Insertion of pacemaker pulse generator only; with existing multiple leads	Implantable cardiac device procedures
33238	Removal of permanent transvenous electrode(s) by thoracotomy	Implantable cardiac device procedures
33220	Repair of 2 transvenous electrodes for permanent pacemaker or pacing cardioverter-defibrillator	Implantable cardiac device procedures
33218	Repair of single transvenous electrode, permanent pacemaker or pacing cardioverter-defibrillator	Implantable cardiac device procedures
33217	Insertion of 2 transvenous electrodes, permanent pacemaker or cardioverter-defibrillator	Implantable cardiac device procedures
33216	Insertion of a single transvenous electrode, permanent pacemaker or cardioverter-defibrillator	Implantable cardiac device procedures
33215	Repositioning of previously implanted transvenous pacemaker or pacing cardioverter-defibrillator (right atrial or right ventricular) electrode	Implantable cardiac device procedures
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)	Implantable cardiac device procedures
33213	Insertion of pacemaker pulse generator only; with existing dual leads	Implantable cardiac device procedures
33212	Insertion of pacemaker pulse generator only; with existing single lead	Implantable cardiac device procedures
33211	Insertion or replacement of temporary transvenous dual chamber pacing electrodes (separate procedure)	Implantable cardiac device procedures
33210	Insertion or replacement of temporary transvenous single chamber cardiac electrode or pacemaker catheter (separate procedure)	Implantable cardiac device procedures
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	Implantable cardiac device procedures
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	Implantable cardiac device procedures
33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial	Implantable cardiac device procedures
33203	Insertion of epicardial electrode(s); endoscopic approach (eg, thoracoscopy, pericardioscopy)	Implantable cardiac device procedures
33202	Insertion of epicardial electrode(s); open incision (eg, thoracotomy, median sternotomy, subxiphoid approach)	Implantable cardiac device procedures
33928	Removal and replacement of total replacement heart system (artificial heart)	Implantation of artificial heart
33927	Implantation of a total replacement heart system (artificial heart) with recipient cardiectomy	Implantation of artificial heart
31400	Arytenoidectomy or arytenoidopexy, external approach	Implantation of artificial heart
36262	Removal of implanted intra-arterial infusion pump	Implantation of chemotherapy device
36261	Revision of implanted intra-arterial infusion pump	Implantation of chemotherapy device
36260	Insertion of implantable intra-arterial infusion pump (eg, for chemotherapy of liver)	Implantation of chemotherapy device
64582	Open implantation of hypoglossal nerve neurostimulator array, pulse generator, and distal respiratory sensor electrode or electrode array	Implantation of hypoglossal nerve neurostimulator array, pulse generator, and distal respiratory sensor electrode or electrode array - open
65785	Implantation of intrastromal corneal ring segments	Implantation of intrastromal corneal ring segments
67027	Implantation of intravitreal drug delivery system (eg, ganciclovir implant), includes concomitant removal of vitreous	Implantation of intravitreal drug delivery system, includes concomitant removal of vitreous

Continued		
Code	Code description	Procedure type
69710	Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone	Implantation or replacement of electromagnetic bone conduction hearing device in temporal bone
69727	Removal, osseointegrated implant, skull; with magnetic transcutaneous attachment to external speech processor	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69726	Removal, osseointegrated implant, skull; with percutaneous attachment to external speech processor	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69719	Revision or replacement (including removal of existing device), osseointegrated implant, skull; with magnetic transcutaneous attachment to external speech processor	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69718	Replacement (including removal of existing device), osseointegrated implant, temporal bone, with percutaneous attachment to external speech processor/cochlear stimulator; with mastoidectomy	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69717	Replacement (including removal of existing device), osseointegrated implant, temporal bone, with percutaneous attachment to external speech processor/cochlear stimulator; without mastoidectomy	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69716	Implantation, osseointegrated implant, skull; with magnetic transcutaneous attachment to external speech processor	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69715	Implantation, osseointegrated implant, temporal bone, with percutaneous attachment to external speech processor/cochlear stimulator; with mastoidectomy	Implantation, removal, or replacement of osseointegrated implant, temporal bone
69714	Implantation, osseointegrated implant, temporal bone, with percutaneous attachment to external speech processor/cochlear stimulator; without mastoidectomy	Implantation, removal, or replacement of osseointegrated implant, temporal bone
43648	Laparoscopy, surgical; revision or removal of gastric neurostimulator electrodes, antrum	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - laparoscopic
43647	Laparoscopy, surgical; implantation or replacement of gastric neurostimulator electrodes, antrum	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - laparoscopic
43882	Revision or removal of gastric neurostimulator electrodes, antrum - open	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - open
43881	Implantation or replacement of gastric neurostimulator electrodes, antrum - open	Implantation, replacement, revision, removal of gastric neurostimulator electrodes - open
22015	Incision and drainage - open, of deep abscess (subfascial), posterior spine; lumbar, sacral, or lumbosacral	Incision and drainage of abscess in posterior spine
22010	Incision and drainage - open, of deep abscess (subfascial), posterior spine; cervical, thoracic, or cervicothoracic	Incision and drainage of abscess in posterior spine
41018	Extraoral incision and drainage of abscess, cyst, or hematoma of floor of mouth; masticator space	Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth
41017	Extraoral incision and drainage of abscess, cyst, or hematoma of floor of mouth; submandibular	Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth
41016	Extraoral incision and drainage of abscess, cyst, or hematoma of floor of mouth; submental	Incision and drainage of abscess, cyst, or hematoma of tongue or floor of mouth
42725	Incision and drainage abscess; retropharyngeal or parapharyngeal, external approach	Incision and drainage of abscess; retropharyngeal or parapharyngeal
44901	Incision and drainage of appendiceal abscess; percutaneous	Incision and drainage of appendiceal abscess - laparoscopic
44900	Incision and drainage of appendiceal abscess - open	Incision and drainage of appendiceal abscess - open
46060	Incision and drainage of ischiorectal or intramural abscess, with fistulectomy or fistulotomy, submuscular, with or without placement of seton	Incision and drainage of rectal, perirectal, or perianal abscess
20005	Incision and drainage of soft tissue abscess, subfascial (ie, involves the soft tissue below the deep fascia)	Incision and drainage of soft tissue abscess, subfascial
27603	Incision and drainage, leg or ankle; deep abscess or hematoma	Incision and drainage, leg or ankle
26990	Incision and drainage, pelvis or hip joint area; deep abscess or hematoma	Incision and drainage, pelvis or hip joint area
27303	Incision, deep, with opening of bone cortex, femur or knee (eg, osteomyelitis or bone abscess)	Incision and drainage, thigh or knee region

Continued		
Code	Code description	Procedure type
27301	Incision and drainage, deep abscess, bursa, or hematoma, thigh or knee region	Incision and drainage, thigh or knee region
64568	Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator	Incision for implantation of cranial nerve (eg, vagus nerve) neurostimulator electrode array and pulse generator
64580	Incision for implantation of neurostimulator electrode array; neuromuscular	Incision for implantation of neurostimulator electrode array
64575	Incision for implantation of neurostimulator electrode array; peripheral nerve (excludes sacral nerve)	Incision for implantation of neurostimulator electrode array
64581	Incision for implantation of neurostimulator electrode array; sacral nerve (transforaminal placement)	Incision for implantation of neurostimulator electrode array
28005	Incision, bone cortex (eg, osteomyelitis or bone abscess), foot	Incision of bone cortex, pelvis and lower extremity
27607	Incision (eg, osteomyelitis or bone abscess), leg or ankle	Incision of bone cortex, pelvis and lower extremity
26992	Incision, bone cortex, pelvis and/or hip joint (eg, osteomyelitis or bone abscess)	Incision of bone cortex, pelvis and lower extremity
26034	Incision, bone cortex, hand or finger (eg, osteomyelitis or bone abscess)	Incision of bone cortex, shoulder and upper extremity
25035	Incision, deep, bone cortex, forearm and/or wrist (eg, osteomyelitis or bone abscess)	Incision of bone cortex, shoulder and upper extremity
23935	Incision, deep, with opening of bone cortex (eg, for osteomyelitis or bone abscess), humerus or elbow	Incision of bone cortex, shoulder and upper extremity
23035	Incision, bone cortex (eg, osteomyelitis or bone abscess), shoulder area	Incision of bone cortex, shoulder and upper extremity
21510	Incision, deep, with opening of bone cortex (eg, for osteomyelitis or bone abscess), thorax	Incision of neck or thorax
21502	Incision and drainage, deep abscess or hematoma, soft tissues of neck or thorax; with partial rib ostectomy	Incision of neck or thorax
46070	Incision, anal septum (infant)	Incision of anal septum (infant)
25001	Incision, flexor tendon sheath, wrist (eg, flexor carpi radialis)	Incision of tendon sheath of wrist
25000	Incision, extensor tendon sheath, wrist (eg, deQuervains disease)	Incision of tendon sheath of wrist
59857	Induced abortion, by 1 or more vaginal suppositories (eg, prostaglandin) with or without cervical dilation (eg, laminaria), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed medical evacuation)	Induced abortion
59852	Induced abortion, by 1 or more intra-amniotic injections (amniocentesis- injections), including hospital admission and visits, delivery of fetus and secundines; with hysterotomy (failed intra-amniotic injection)	Induced abortion
30140	Submucous resection inferior turbinate, partial or complete, any method	Inferior turbinate resection or excision
30130	Excision inferior turbinate, partial or complete, any method	Inferior turbinate resection or excision
61591	Infratemporal post-auricular approach to middle cranial fossa (internal auditory meatus, petrous apex, tentorium, cavernous sinus, parasellar area, infratemporal fossa) including mastoidectomy, resection of sigmoid sinus, with or without decompression and/or mobilization of contents of auditory canal or petrous carotid artery	Infratemporal pre-auricular approach to middle cranial fossa
61590	Infratemporal pre-auricular approach to middle cranial fossa (parapharyngeal space, infratemporal and midline skull base, nasopharynx), with or without disarticulation of the mandible, including parotidectomy, craniotomy, decompression and/or mobilization of the facial nerve and/or petrous carotid artery	Infratemporal pre-auricular approach to middle cranial fossa
67515	Injection of medication or other substance into Tenon's capsule	Injection of medication or other substance into Tenon's capsule
53445	Insertion of inflatable urethral/bladder neck sphincter, including placement of pump, reservoir, and cuff	Insertion of inflatable urethral/bladder neck sphincter, including placement of pump, reservoir, and cuff
22869	Insertion of interlaminar/interspinous process stabilization/distraction device, without open decompression or fusion, including image guidance when performed, lumbar; single level	Insertion of interlaminar/interspinous process stabilization/distraction device
22867	Insertion of interlaminar/interspinous process stabilization/distraction device, without fusion, including image guidance when performed, with open decompression, lumbar; single level	Insertion of interlaminar/interspinous process stabilization/distraction device
66985	Insertion of intraocular lens prosthesis (secondary implant), not associated with concurrent cataract removal	Insertion of intraocular lens prosthesis, not associated with concurrent cataract removal

Continued		
Code	Code description	Procedure type
65140	Insertion of ocular implant secondary; after enucleation, muscles attached to implant	Insertion of ocular implants
65135	Insertion of ocular implant secondary; after enucleation, muscles not attached to implant	Insertion of ocular implants
65130	Insertion of ocular implant secondary; after evisceration, in scleral shell	Insertion of ocular implants
67550	Orbital implant (implant outside muscle cone); insertion	Insertion of orbital implant
49425	Insertion of peritoneal-venous shunt	Insertion of peritoneal-venous shunt
61215	Insertion of subcutaneous reservoir; pump or continuous infusion system for connection to ventricular catheter	Insertion of subcutaneous reservoir; pump or continuous infusion system for connection to ventricular catheter (CNS)
53444	Insertion of tandem cuff (dual cuff)	Insertion of tandem cuff
54660	Insertion of testicular prosthesis (separate procedure)	Insertion of testicular prosthesis
36835	Insertion of Thomas shunt (separate procedure)	Insertion of Thomas shunt
25430	Insertion of vascular pedicle into carpal bone (eg, Hori procedure)	Insertion of vascular pedicle into carpal bone (eg, Hori procedure)
33979	Insertion of ventricular assist device, implantable intracorporeal, single ventricle	Insertion of ventricular assist device
33976	Insertion of ventricular assist device; extracorporeal, biventricular	Insertion of ventricular assist device
33975	Insertion of ventricular assist device; extracorporeal, single ventricle	Insertion of ventricular assist device
61886	Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to 2 or more electrode arrays	Insertion or replacement of cranial neurostimulator pulse generator or receiver
61885	Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to a single electrode array	Insertion or replacement of cranial neurostimulator pulse generator or receiver
64590	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling	Insertion or replacement of peripheral or gastric neurostimulator pulse generator or receiver, direct or inductive coupling
33973	Insertion of intra-aortic balloon assist device through the ascending aorta	Insertion of intra-aortic balloon assist device
33970	Insertion of intra-aortic balloon assist device through the femoral artery - open approach	Insertion of intra-aortic balloon assist device
93656	Comprehensive electrophysiologic evaluation including transseptal 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	Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters
93654	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 ventricular tachycardia or focus of ventricular ectopy including intracardiac electrophysiologic 3D mapping, when performed, and left ventricular pacing and recording, when performed	Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters
93653	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	Interventional cardiology; Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters
44605	Suture of large intestine (colorrhaphy) for perforated ulcer, diverticulum, wound, injury or rupture (single or multiple perforations); with colostomy	Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury
44604	Suture of large intestine (colorrhaphy) for perforated ulcer, diverticulum, wound, injury or rupture (single or multiple perforations); without colostomy	Intestinal procedure, colon repair without or without ostomy for ulcer, diverticulum, wound, or injury
45136	Excision of ileoanal reservoir with ileostomy	Intestinal procedure, excision of ileoanal reservoir with ileostomy
44111	Excision of 1 or more lesions of small or large intestine not requiring anastomosis, exteriorization, or fistulization; multiple enterotomies	Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization

Continued		
Code	Code description	Procedure type
44110	Excision of 1 or more lesions of small or large intestine not requiring anastomosis, exteriorization, or fistulization; single enterotomy	Intestinal procedure, excision of lesion without anastomosis, exteriorization or fistulization
44316	Continent ileostomy (Kock procedure) (separate procedure)	Intestinal procedure, ileostomy or jejunostomy
44314	Revision of ileostomy; complicated (reconstruction in-depth) (separate procedure)	Intestinal procedure, ileostomy or jejunostomy
44312	Revision of ileostomy; simple (release of superficial scar) (separate procedure)	Intestinal procedure, ileostomy or jejunostomy
44310	Ileostomy or jejunostomy, non-tube	Intestinal procedure, ileostomy or jejunostomy
44050	Reduction of volvulus, intussusception, internal hernia, by laparotomy	Intestinal procedure, intestinal hernia and volvulus derotation open laparotomy
44055	Correction of malrotation by lysis of duodenal bands and/or reduction of midgut volvulus (eg, Ladd procedure)	Intestinal procedure, lysis of adhesions
50825	Continent diversion, including intestine anastomosis using any segment of small and/or large intestine (Kock pouch or Camey enterocystoplasty)	Intestinal procedure, ostomy creation
44680	Intestinal plication (separate procedure)	Intestinal procedure, plication
44602	Suture of small intestine (enterorrhaphy) for perforated ulcer, diverticulum, wound, injury or rupture; single perforation	Intestinal procedure, repair
44603	Suture of small intestine (enterorrhaphy) for perforated ulcer, diverticulum, wound, injury or rupture; multiple perforations	Intestinal procedure, repair
44202	Laparoscopy, surgical; enterectomy, resection of small intestine, single resection and anastomosis	Intestinal procedure, resection and anastomosis - laparoscopic
44130	Enteroenterostomy, anastomosis of intestine, with or without cutaneous enterostomy (separate procedure)	Intestinal procedure, resection and anastomosis - open
44127	Enterectomy, resection of small intestine for congenital atresia, single resection and anastomosis of proximal segment of intestine; with tapering	Intestinal procedure, resection and anastomosis - open
44126	Enterectomy, resection of small intestine for congenital atresia, single resection and anastomosis of proximal segment of intestine; without tapering	Intestinal procedure, resection and anastomosis - open
44120	Enterectomy, resection of small intestine; single resection and anastomosis	Intestinal procedure, resection and anastomosis - open
44626	Closure of enterostomy, large or small intestine; with resection and colorectal anastomosis (eg, closure of Hartmann type procedure)	Intestinal procedure, resection and closure of enterostomy
44625	Closure of enterostomy, large or small intestine; with resection and anastomosis other than colorectal	Intestinal procedure, resection and closure of enterostomy
44125	Enterectomy, resection of small intestine; with enterostomy	Intestinal procedure, resection and enterostomy
44615	Intestinal stricturoplasty (enterotomy and enterorrhaphy) with or without dilation, for intestinal obstruction	Intestinal procedure, stricturoplasty
61710	Surgery of aneurysm, vascular malformation or carotid-cavernous fistula; by intra-arterial embolization, injection procedure, or balloon catheter	Intracranial aneurysm repair - endovascular
61708	Surgery of aneurysm, vascular malformation or carotid-cavernous fistula; by intracranial electrothrombosis	Intracranial aneurysm repair - open
61705	Surgery of aneurysm, vascular malformation or carotid-cavernous fistula; by intracranial and cervical occlusion of carotid artery	Intracranial aneurysm repair - open
61703	Surgery of intracranial aneurysm, cervical approach by application of occluding clamp to cervical carotid artery (Selverstone-Crutchfield type)	Intracranial aneurysm repair - open
61702	Surgery of simple intracranial aneurysm, intracranial approach; vertebrobasilar circulation	Intracranial aneurysm repair - open
61700	Surgery of simple intracranial aneurysm, intracranial approach; carotid circulation	Intracranial aneurysm repair - open
61698	Surgery of complex intracranial aneurysm, intracranial approach; vertebrobasilar circulation	Intracranial aneurysm repair - open
61697	Surgery of complex intracranial aneurysm, intracranial approach; carotid circulation	Intracranial aneurysm repair - open
61692	Surgery of intracranial arteriovenous malformation; dural, complex	Intracranial arteriovenous malformation repair
61690	Surgery of intracranial arteriovenous malformation; dural, simple	Intracranial arteriovenous malformation repair
61686	Surgery of intracranial arteriovenous malformation; infratentorial, complex	Intracranial arteriovenous malformation repair

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Code	Code description	Procedure type
61684	Surgery of intracranial arteriovenous malformation; infratentorial, simple	Intracranial arteriovenous malformation repair
61682	Surgery of intracranial arteriovenous malformation; supratentorial, complex	Intracranial arteriovenous malformation repair
61680	Surgery of intracranial arteriovenous malformation; supratentorial, simple	Intracranial arteriovenous malformation repair
67028	Intravitreal injection of a pharmacologic agent (separate procedure)	Intravitreal injection of a pharmacologic agent
66635	Iridectomy, with corneoscleral or corneal section; optical (separate procedure)	Iridectomy, with corneoscleral or corneal section
66630	Iridectomy, with corneoscleral or corneal section; sector for glaucoma (separate procedure)	Iridectomy, with corneoscleral or corneal section
66625	Iridectomy, with corneoscleral or corneal section; peripheral for glaucoma (separate procedure)	Iridectomy, with corneoscleral or corneal section
66605	Iridectomy, with corneoscleral or corneal section; with cyclectomy	Iridectomy, with corneoscleral or corneal section
66600	Iridectomy, with corneoscleral or corneal section; for removal of lesion	Iridectomy, with corneoscleral or corneal section
66505	Iridotomy by stab incision (separate procedure); with transfixion as for iris bombe	Iridotomy by stab incision
66500	Iridotomy by stab incision (separate procedure); except transfixion	Iridotomy by stab incision
65760	Keratomileusis	Keratomileusis
65765	Keratophakia	Keratophakia
65756	Keratoplasty (corneal transplant); endothelial	Keratoplasty
65755	Keratoplasty (corneal transplant); penetrating (in pseudophakia)	Keratoplasty
65750	Keratoplasty (corneal transplant); penetrating (in aphakia)	Keratoplasty
65730	Keratoplasty (corneal transplant); penetrating (except in aphakia or pseudophakia)	Keratoplasty
65710	Keratoplasty (corneal transplant); anterior lamellar	Keratoplasty
65770	Keratoprosthesis	Keratoprosthesis
25915	Krukenberg procedure	Krukenberg procedure
22819	Kyphectomy, circumferential exposure of spine and resection of vertebral segment(s) (including body and posterior elements); 3 or more segments	Kyphectomy
22818	Kyphectomy, circumferential exposure of spine and resection of vertebral segment(s) (including body and posterior elements); single or 2 segments	Kyphectomy
69910	Labyrinthectomy; with mastoidectomy	Labyrinthectomy
69905	Labyrinthectomy; transcanal	Labyrinthectomy
63655	Laminectomy for implantation of neurostimulator electrodes, plate/paddle, epidural	Laminectomy/corpectomy
63307	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; intradural, lumbar or sacral by transperitoneal or retroperitoneal approach	Laminectomy/corpectomy
63306	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; intradural, thoracic by thoracolumbar approach	Laminectomy/corpectomy
63305	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; intradural, thoracic by transthoracic approach	Laminectomy/corpectomy
63303	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; extradural, lumbar or sacral by transperitoneal or retroperitoneal approach	Laminectomy/corpectomy
63302	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; extradural, thoracic by thoracolumbar approach	Laminectomy/corpectomy
63301	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; extradural, thoracic by transthoracic approach	Laminectomy/corpectomy
63290	Laminectomy for biopsy/excision of intraspinal neoplasm; combined extradural-intradural lesion, any level	Laminectomy/corpectomy
63287	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, intramedullary, thoracolumbar	Laminectomy/corpectomy
63286	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, intramedullary, thoracic	Laminectomy/corpectomy
63283	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, sacral	Laminectomy/corpectomy

Continued		
Code	Code description	Procedure type
63282	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, extramedullary, lumbar	Laminectomy/corpectomy
63281	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, extramedullary, thoracic	Laminectomy/corpectomy
63280	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, extramedullary, cervical	Laminectomy/corpectomy
63278	Laminectomy for biopsy/excision of intraspinal neoplasm; extradural, sacral	Laminectomy/corpectomy
63277	Laminectomy for biopsy/excision of intraspinal neoplasm; extradural, lumbar	Laminectomy/corpectomy
63276	Laminectomy for biopsy/excision of intraspinal neoplasm; extradural, thoracic	Laminectomy/corpectomy
63273	Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; sacral	Laminectomy/corpectomy
63272	Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; lumbar	Laminectomy/corpectomy
63271	Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; thoracic	Laminectomy/corpectomy
63268	Laminectomy for excision or evacuation of intraspinal lesion other than neoplasm, extradural; sacral	Laminectomy/corpectomy
63267	Laminectomy for excision or evacuation of intraspinal lesion other than neoplasm, extradural; lumbar	Laminectomy/corpectomy
63266	Laminectomy for excision or evacuation of intraspinal lesion other than neoplasm, extradural; thoracic	Laminectomy/corpectomy
63252	Laminectomy for excision or occlusion of arteriovenous malformation of spinal cord; thoracolumbar	Laminectomy/corpectomy
63251	Laminectomy for excision or occlusion of arteriovenous malformation of spinal cord; thoracic	Laminectomy/corpectomy
63250	Laminectomy for excision or occlusion of arteriovenous malformation of spinal cord; cervical	Laminectomy/corpectomy
63200	Laminectomy, with release of tethered spinal cord, lumbar	Laminectomy/corpectomy
63199	Laminectomy with cordotomy with section of both spinothalamic tracts, 2 stages within 14 days; thoracic	Laminectomy/corpectomy
63198	Laminectomy with cordotomy with section of both spinothalamic tracts, 2 stages within 14 days; cervical	Laminectomy/corpectomy
63197	Laminectomy with cordotomy, with section of both spinothalamic tracts, 1 stage; thoracic	Laminectomy/corpectomy
63196	Laminectomy with cordotomy, with section of both spinothalamic tracts, 1 stage; cervical	Laminectomy/corpectomy
63195	Laminectomy with cordotomy, with section of 1 spinothalamic tract, 1 stage; thoracic	Laminectomy/corpectomy
63194	Laminectomy with cordotomy, with section of 1 spinothalamic tract, 1 stage; cervical	Laminectomy/corpectomy
63191	Laminectomy with section of spinal accessory nerve	Laminectomy/corpectomy
63190	Laminectomy with rhizotomy; more than 2 segments	Laminectomy/corpectomy
63185	Laminectomy with rhizotomy; 1 or 2 segments	Laminectomy/corpectomy
63182	Laminectomy and section of dentate ligaments, with or without dural graft, cervical; more than 2 segments	Laminectomy/corpectomy
63180	Laminectomy and section of dentate ligaments, with or without dural graft, cervical; 1 or 2 segments	Laminectomy/corpectomy
63265	Laminectomy for excision or evacuation of intraspinal lesion other than neoplasm, extradural; cervical	Laminectomy/corpectomy
63173	Laminectomy with drainage of intramedullary cyst/syrinx; to peritoneal or pleural space	Laminectomy/corpectomy
63172	Laminectomy with drainage of intramedullary cyst/syrinx; to subarachnoid space	Laminectomy/corpectomy
63270	Laminectomy for excision of intraspinal lesion other than neoplasm, intradural; cervical	Laminectomy/corpectomy
63170	Laminectomy with myelotomy (eg, Bischof or DREZ type), cervical, thoracic, or thoracolumbar	Laminectomy/corpectomy
63102	Vertebral corpectomy (vertebral body resection), partial or complete, lateral extracavitary approach with decompression of spinal cord and/or nerve root(s) (eg, for tumor or retropulsed bone fragments); lumbar, single segment	Laminectomy/corpectomy
63101	Vertebral corpectomy (vertebral body resection), partial or complete, lateral extracavitary approach with decompression of spinal cord and/or nerve root(s) (eg, for tumor or retropulsed bone fragments); thoracic, single segment	Laminectomy/corpectomy
63090	Vertebral corpectomy (vertebral body resection), partial or complete, transperitoneal or retroperitoneal approach with decompression of spinal cord, cauda equina or nerve root(s), lower thoracic, lumbar, or sacral; single segment	Laminectomy/corpectomy
63087	Vertebral corpectomy (vertebral body resection), partial or complete, combined thoracolumbar approach with decompression of spinal cord, cauda equina or nerve root(s), lower thoracic or lumbar; single segment	Laminectomy/corpectomy
63085	Vertebral corpectomy (vertebral body resection), partial or complete, transthoracic approach with decompression of spinal cord and/or nerve root(s); thoracic, single segment	Laminectomy/corpectomy
63275	Laminectomy for biopsy/excision of intraspinal neoplasm; extradural, cervical	Laminectomy/corpectomy

Continued		
Code	Code description	Procedure type
63081	Vertebral corpectomy (vertebral body resection), partial or complete, anterior approach with decompression of spinal cord and/or nerve root(s); cervical, single segment	Laminectomy/corpectomy
63077	Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophylectomy; thoracic, single interspace	Laminectomy/corpectomy
63075	Discectomy, anterior, with decompression of spinal cord and/or nerve root(s), including osteophylectomy; cervical, single interspace	Laminectomy/corpectomy
63064	Costovertebral approach with decompression of spinal cord or nerve root(s) (eg, herniated intervertebral disc), thoracic; single segment	Laminectomy/corpectomy
63285	Laminectomy for biopsy/excision of intraspinal neoplasm; intradural, intramedullary, cervical	Laminectomy/corpectomy
63056	Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; lumbar (including transfacet, or lateral extraforaminal approach) (eg, far lateral herniated intervertebral disc)	Laminectomy/corpectomy
63055	Transpedicular approach with decompression of spinal cord, equina and/or nerve root(s) (eg, herniated intervertebral disc), single segment; thoracic	Laminectomy/corpectomy
63051	Laminoplasty, cervical, with decompression of the spinal cord, 2 or more vertebral segments; with reconstruction of the posterior bony elements (including the application of bridging bone graft and non-segmental fixation devices [eg, wire, suture, mini-plates], when performed)	Laminectomy/corpectomy
63050	Laminoplasty, cervical, with decompression of the spinal cord, 2 or more vertebral segments;	Laminectomy/corpectomy
63300	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; extradural, cervical	Laminectomy/corpectomy
63047	Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; lumbar	Laminectomy/corpectomy
63046	Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; thoracic	Laminectomy/corpectomy
63304	Vertebral corpectomy (vertebral body resection), partial or complete, for excision of intraspinal lesion, single segment; intradural, cervical	Laminectomy/corpectomy
63045	Laminectomy, facetectomy and foraminotomy (unilateral or bilateral with decompression of spinal cord, cauda equina and/or nerve root[s], [eg, spinal or lateral recess stenosis]), single vertebral segment; cervical	Laminectomy/corpectomy
63042	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; lumbar	Laminectomy/corpectomy
63040	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc, reexploration, single interspace; cervical	Laminectomy/corpectomy
63030	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, lumbar	Laminectomy/corpectomy
63020	Laminotomy (hemilaminectomy), with decompression of nerve root(s), including partial facetectomy, foraminotomy and/or excision of herniated intervertebral disc; 1 interspace, cervical	Laminectomy/corpectomy
63017	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; lumbar	Laminectomy/corpectomy
63016	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; thoracic	Laminectomy/corpectomy
63015	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), more than 2 vertebral segments; cervical	Laminectomy/corpectomy
63012	Laminectomy with removal of abnormal facets and/or pars inter-articularis with decompression of cauda equina and nerve roots for spondylolisthesis, lumbar (Gill type procedure)	Laminectomy/corpectomy
63011	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; sacral	Laminectomy/corpectomy

Continued		
Code	Code description	Procedure type
63005	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; lumbar, except for spondylolisthesis	Laminectomy/corpectomy
63003	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; thoracic	Laminectomy/corpectomy
63001	Laminectomy with exploration and/or decompression of spinal cord and/or cauda equina, without facetectomy, foraminotomy or discectomy (eg, spinal stenosis), 1 or 2 vertebral segments; cervical	Laminectomy/corpectomy
49329	Unlisted laparoscopy procedure, abdomen, peritoneum and omentum	Laparoscopic abdominal procedure
49325	Laparoscopy, surgical; with revision of previously placed intraperitoneal cannula or catheter, with removal of intraluminal obstructive material if performed	Laparoscopic abdominal procedure
49324	Laparoscopy, surgical; with insertion of tunneled intraperitoneal catheter	Laparoscopic abdominal procedure
49323	Laparoscopy, surgical; with drainage of lymphocele to peritoneal cavity	Laparoscopic abdominal procedure
49322	Laparoscopy, surgical; with aspiration of cavity or cyst (eg, ovarian cyst) (single or multiple)	Laparoscopic abdominal procedure
44979	Unlisted laparoscopy procedure, appendix	Laparoscopic appendix procedure
47579	Unlisted laparoscopy procedure, biliary tract	Laparoscopic biliary procedure
51999	Unlisted laparoscopy procedure, bladder	Laparoscopic bladder procedure
60659	Unlisted laparoscopy procedure, endocrine system	Laparoscopic endocrine procedure
44227	Laparoscopy, surgical, closure of enterostomy, large or small intestine, with resection and anastomosis	Laparoscopic enterotomy closure
43280	Laparoscopy, surgical, esophagogastric fundoplasty (eg, Nissen, Toupet procedures)	Laparoscopic esophagus fundoplasty
43279	Laparoscopy, surgical, esophagomyotomy (Heller type), with fundoplasty, when performed	Laparoscopic esophagus fundoplasty
43289	Unlisted laparoscopy procedure, esophagus	Laparoscopic esophagus procedure
43284	Laparoscopy, surgical, esophageal sphincter augmentation procedure, placement of sphincter augmentation device (ie, magnetic band), including cruroplasty when performed	Laparoscopic esophagus procedure sphincter augmentation
58674	Laparoscopy, surgical, ablation of uterine fibroid(s) including intraoperative ultrasound guidance and monitoring, radiofrequency	Laparoscopic fibroid ablation
58672	Laparoscopy, surgical; with fimbrioplasty	Laparoscopic fimbrioplasty
58670	Laparoscopy, surgical; with fulguration of oviducts (with or without transection)	Laparoscopic fulguration of oviducts (with or without transection)
58662	Laparoscopy, surgical; with fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method	Laparoscopic fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method
43653	Laparoscopy, surgical; gastrostomy, without construction of gastric tube (eg, Stamm procedure) (separate procedure)	Laparoscopic gastrostomy, without construction of gastric tube
49659	Unlisted laparoscopy procedure, hernioplasty, herniorrhaphy, herniotomy	Laparoscopic hernia repair
44238	Unlisted laparoscopy procedure, intestine (except rectum)	Laparoscopic intestinal procedure
44187	Laparoscopy, surgical; ileostomy or jejunostomy, non-tube	Laparoscopic intestinal procedure
44186	Laparoscopy, surgical; jejunostomy (eg, for decompression or feeding)	Laparoscopic intestinal procedure
47379	Unlisted laparoscopic procedure, liver	Laparoscopic liver procedure
58660	Laparoscopy, surgical; with lysis of adhesions (salpingolysis, ovariolysis) (separate procedure)	Laparoscopic lysis of adhesions
50548	Laparoscopy, surgical; nephrectomy with total ureterectomy	Nephrectomy - laparoscopic
50547	Laparoscopy, surgical; donor nephrectomy (including cold preservation), from living donor	Nephrectomy - laparoscopic
50546	Laparoscopy, surgical; nephrectomy, including partial ureterectomy	Nephrectomy - laparoscopic
50545	Laparoscopy, surgical; radical nephrectomy (includes removal of Gerota's fascia and surrounding fatty tissue, removal of regional lymph nodes, and adrenalectomy)	Nephrectomy - laparoscopic
50544	Laparoscopy, surgical; pyeloplasty	Nephrectomy - laparoscopic
50543	Laparoscopy, surgical; partial nephrectomy	Nephrectomy - laparoscopic
59898	Unlisted laparoscopy procedure, maternity care and delivery	Laparoscopic obstetric procedure
58671	Laparoscopy, surgical; with occlusion of oviducts by device (eg, band, clip, or Falope ring)	Laparoscopic occlusion of oviducts by device (eg, band, clip, or Falope ring)
58679	Unlisted laparoscopy procedure, oviduct, ovary	Laparoscopic ovarian procedure
45499	Unlisted laparoscopy procedure, rectum	Laparoscopic rectal procedure
50549	Unlisted laparoscopy procedure, renal	Laparoscopic renal procedure

Continued		
Code	Code description	Procedure type
43282	Laparoscopy, surgical, repair of paraesophageal hernia, includes fundoplasty, when performed; with implantation of mesh	Laparoscopic repair of paraesophageal hernia
43281	Laparoscopy, surgical, repair of paraesophageal hernia, includes fundoplasty, when performed; without implantation of mesh	Laparoscopic repair of paraesophageal hernia
58673	Laparoscopy, surgical; with salpingostomy (salpingoneostomy)	Laparoscopic salpingostomy
51992	Laparoscopy, surgical; sling operation for stress incontinence (eg, fascia or synthetic)	Laparoscopic sling operation for stress incontinence (eg, fascia or synthetic)
38129	Unlisted laparoscopy procedure, spleen	Laparoscopic spleen procedure
43659	Unlisted laparoscopy procedure, stomach	Laparoscopic stomach procedure
55559	Unlisted laparoscopy procedure, spermatic cord	Laparoscopic testicular procedure
54699	Unlisted laparoscopy procedure, testis	Laparoscopic testicular procedure
43652	Laparoscopy, surgical; transection of vagus nerves, selective or highly selective	Laparoscopic transection of vagus nerves
43651	Laparoscopy, surgical; transection of vagus nerves, truncal	Laparoscopic transection of vagus nerves
50949	Unlisted laparoscopy procedure, ureter	Laparoscopic ureteral procedure
51990	Laparoscopy, surgical; urethral suspension for stress incontinence	Laparoscopic urethral suspension for stress incontinence
58578	Unlisted laparoscopy procedure, uterus	Laparoscopic uterine procedure
58960	Laparotomy, for staging or restaging of ovarian, tubal, or primary peritoneal malignancy (second look), with or without omentectomy, peritoneal washing, biopsy of abdominal and pelvic peritoneum, diaphragmatic assessment with pelvic and limited para-aortic lymphadenectomy	Laparotomy
49002	Reopening of recent laparotomy	Laparotomy
47015	Laparotomy, with aspiration and/or injection of hepatic parasitic (eg, amoebic or echinococcal) cyst(s) or abscess(es)	Laparotomy
31590	Laryngeal reinnervation by neuromuscular pedicle	Laryngeal reinnervation by neuromuscular pedicle
31390	Pharyngolaryngectomy, with radical neck dissection; without reconstruction	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31368	Laryngectomy; subtotal supraglottic, with radical neck dissection	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31365	Laryngectomy; total, with radical neck dissection	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31395	Pharyngolaryngectomy, with radical neck dissection; with reconstruction	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31382	Partial laryngectomy (hemilaryngectomy); antero-latero-vertical	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31380	Partial laryngectomy (hemilaryngectomy); anterovertical	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31375	Partial laryngectomy (hemilaryngectomy); laterovertical	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31370	Partial laryngectomy (hemilaryngectomy); horizontal	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31367	Laryngectomy; subtotal supraglottic, without radical neck dissection	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31360	Laryngectomy; total, without radical neck dissection	Laryngectomy, pharyngectomy, pharyngolaryngectomy
31591	Laryngoplasty, medialization, unilateral	Laryngoplasty
31588	Laryngoplasty, not otherwise specified (eg, for burns, reconstruction after partial laryngectomy)	Laryngoplasty
31587	Laryngoplasty, cricoid split	Laryngoplasty
31584	Laryngoplasty; with open reduction of fracture	Laryngoplasty
31582	Laryngoplasty; for laryngeal stenosis, with graft or core mold, including tracheotomy	Laryngoplasty
31580	Laryngoplasty; for laryngeal web, 2-stage, with keel insertion and removal	Laryngoplasty
31554	Laryngoplasty; for laryngeal stenosis, with graft, with indwelling stent placement, age 12 years or older	Laryngoplasty
31553	Laryngoplasty; for laryngeal stenosis, with graft, with indwelling stent placement, younger than 12 years of age	Laryngoplasty

Continued		
Code	Code description	Procedure type
31552	Laryngoplasty; for laryngeal stenosis, with graft, without indwelling stent placement, age 12 years or older	Laryngoplasty
31551	Laryngoplasty; for laryngeal stenosis, with graft, without indwelling stent placement, younger than 12 years of age	Laryngoplasty
31546	Laryngoscopy, direct, operative, with operating microscope or telescope, with submucosal removal of non-neoplastic lesion(s) of vocal cord; reconstruction with graft(s) (includes obtaining autograft)	Laryngoscopy, with tumor excision, with or without reconstruction
31545	Laryngoscopy, direct, operative, with operating microscope or telescope, with submucosal removal of non-neoplastic lesion(s) of vocal cord; reconstruction with local tissue flap(s)	Laryngoscopy, with tumor excision, with or without reconstruction
31541	Laryngoscopy, direct, operative, with excision of tumor and/or stripping of vocal cords or epiglottis; with operating microscope or telescope	Laryngoscopy, with tumor excision, with or without reconstruction
31540	Laryngoscopy, direct, operative, with excision of tumor and/or stripping of vocal cords or epiglottis;	Laryngoscopy, with tumor excision, with or without reconstruction
31300	Laryngotomy (thyrotomy, laryngofissure); with removal of tumor or laryngocele, cordectomy	Laryngotomy
52649	Laser enucleation of the prostate with morcellation, including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, internal urethrotomy and transurethral resection of prostate are included if performed)	Laser enucleation of the prostate with morcellation
61737	Laser interstitial thermal therapy (LITT) of lesion, intracranial, including burr hole(s), with magnetic resonance imaging guidance, when performed; multiple trajectories for multiple or complex lesion(s)	Laser interstitial thermal therapy (LITT) of lesion, intracranial
61736	Laser interstitial thermal therapy (LITT) of lesion, intracranial, including burr hole(s), with magnetic resonance imaging guidance, when performed; single trajectory for 1 simple lesion	Laser interstitial thermal therapy (LITT) of lesion, intracranial
27425	Lateral retinacular release - open	Lateral retinacular release - open
27395	Lengthening of hamstring tendon; multiple tendons, bilateral	Lengthening of hamstring tendon
27394	Lengthening of hamstring tendon; multiple tendons, 1 leg	Lengthening of hamstring tendon
27393	Lengthening of hamstring tendon; single tendon	Lengthening of hamstring tendon
42227	Lengthening of palate, with island flap	Lengthening of palate
42226	Lengthening of palate, and pharyngeal flap	Lengthening of palate
27429	Ligamentous reconstruction (augmentation), knee; intra-articular (open) and extra-articular	Ligamentous reconstruction (augmentation), knee
27428	Ligamentous reconstruction (augmentation), knee; intra-articular (open)	Ligamentous reconstruction (augmentation), knee
27427	Ligamentous reconstruction (augmentation), knee; extra-articular	Ligamentous reconstruction (augmentation), knee
37660	Ligation of common iliac vein	Ligation of blood vessels
30920	Ligation arteries; internal maxillary artery, transantral	Ligation of blood vessels
30915	Ligation arteries; ethmoidal	Ligation of blood vessels
37650	Ligation of femoral vein	Ligation of blood vessels
37619	Ligation of inferior vena cava	Ligation of blood vessels
37565	Ligation, internal jugular vein	Ligation of blood vessels
37617	Ligation, major artery (eg, post-traumatic, rupture); abdomen	Ligation of blood vessels
37616	Ligation, major artery (eg, post-traumatic, rupture); chest	Ligation of blood vessels
37618	Ligation, major artery (eg, post-traumatic, rupture); extremity	Ligation of blood vessels
37615	Ligation, major artery (eg, post-traumatic, rupture); neck	Ligation of blood vessels
37785	Ligation, division, and/or excision of varicose vein cluster(s), 1 leg	Ligation of blood vessels
37780	Ligation and division of short saphenous vein at saphenopopliteal junction (separate procedure)	Ligation of blood vessels
37761	Ligation of perforator vein(s), subfascial - open, including ultrasound guidance, when performed, 1 leg	Ligation of blood vessels
37760	Ligation of perforator veins, subfascial, radical (Linton type), including skin graft, when performed - open, 1 leg	Ligation of blood vessels
37735	Ligation and division and complete stripping of long or short saphenous veins with radical excision of ulcer and skin graft and/or interruption of communicating veins of lower leg, with excision of deep fascia	Ligation of blood vessels

Continued		
Code	Code description	Procedure type
37722	Ligation, division, and stripping, long (greater) saphenous veins from saphenofemoral junction to knee or below	Ligation of blood vessels
37718	Ligation, division, and stripping, short saphenous vein	Ligation of blood vessels
37700	Ligation and division of long saphenous vein at saphenofemoral junction, or distal interruptions	Ligation of blood vessels
37600	Ligation; external carotid artery	Ligation of blood vessels
37606	Ligation; internal or common carotid artery, with gradual occlusion, as with Selverstone or Crutchfield clamp	Ligation of blood vessels
37605	Ligation; internal or common carotid artery	Ligation of blood vessels
37607	Ligation or banding of angioaccess arteriovenous fistula	Ligation or banding of angioaccess arteriovenous fistula
43405	Ligation or stapling at gastroesophageal junction for pre-existing esophageal perforation	Ligation or stapling at gastroesophageal junction for pre-existing esophageal perforation
58605	Ligation or transection of fallopian tube(s), abdominal or vaginal approach, postpartum, unilateral or bilateral, during same hospitalization (separate procedure)	Ligation or transection of fallopian tube(s)
58600	Ligation or transection of fallopian tube(s), abdominal or vaginal approach, unilateral or bilateral	Ligation or transection of fallopian tube(s)
42890	Limited pharyngectomy	Laryngectomy, pharyngectomy, pharyngolaryngectomy
15876	Suction assisted lipectomy; head and neck	Lipectomy, with or without excessive skin removal
15879	Suction assisted lipectomy; lower extremity	Lipectomy, with or without excessive skin removal
15877	Suction assisted lipectomy; trunk	Lipectomy, with or without excessive skin removal
15878	Suction assisted lipectomy; upper extremity	Lipectomy, with or without excessive skin removal
47400	Hepaticotomy or hepaticostomy with exploration, drainage, or removal of calculus	Liver debridement
47011	Hepatotomy; for percutaneous drainage of abscess or cyst, 1 or 2 stages	Liver debridement
47010	Hepatotomy, for open drainage of abscess or cyst, 1 or 2 stages	Liver debridement
47130	Hepatectomy, resection of liver; total right lobectomy	Liver resection
47125	Hepatectomy, resection of liver; total left lobectomy	Liver resection
47122	Hepatectomy, resection of liver; trisegmentectomy	Liver resection
47120	Hepatectomy, resection of liver; partial lobectomy	Liver resection
47142	Donor hepatectomy (including cold preservation), from living donor; total right lobectomy (segments V, VI, VII and VIII)	Liver transplantation
47141	Donor hepatectomy (including cold preservation), from living donor; total left lobectomy (segments II, III and IV)	Liver transplantation
47140	Donor hepatectomy (including cold preservation), from living donor; left lateral segment only (segments II and III)	Liver transplantation
47136	Liver allotransplantation; heterotopic, partial or whole, from cadaver or living donor, any age	Liver transplantation
47135	Liver allotransplantation; orthotopic, partial or whole, from cadaver or living donor, any age	Liver transplantation
43497	Lower esophageal myotomy, transoral (ie, peroral endoscopic myotomy [POEM])	Lower esophageal myotomy, endoscopic
19307	Mastectomy, modified radical, including axillary lymph nodes, with or without pectoralis minor muscle, but excluding pectoralis major muscle	Lumpectomy or mastectomy
19306	Mastectomy, radical, including pectoral muscles, axillary and internal mammary lymph nodes (Urban type operation)	Lumpectomy or mastectomy
19305	Mastectomy, radical, including pectoral muscles, axillary lymph nodes	Lumpectomy or mastectomy
19304	Mastectomy, subcutaneous	Lumpectomy or mastectomy
19303	Mastectomy, simple, complete	Lumpectomy or mastectomy
19302	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy); with axillary lymphadenectomy	Lumpectomy or mastectomy
19301	Mastectomy, partial (eg, lumpectomy, tylectomy, quadrantectomy, segmentectomy);	Lumpectomy or mastectomy
19300	Mastectomy for gynecomastia	Lumpectomy or mastectomy

Continued		
Code	Code description	Procedure type
32491	Removal of lung, other than pneumonectomy; with resection-plication of emphysematous lung(s) (bullous or non-bullous) for lung volume reduction, sternal split or transthoracic approach, includes any pleural procedure, when performed	Lung resection
32488	Removal of lung, other than pneumonectomy; with all remaining lung following previous removal of a portion of lung (completion pneumonectomy)	Lung resection
32486	Removal of lung, other than pneumonectomy; with circumferential resection of segment of bronchus followed by broncho-bronchial anastomosis (sleeve lobectomy)	Lung resection
32484	Removal of lung, other than pneumonectomy; single segment (segmentectomy)	Lung resection
32482	Removal of lung, other than pneumonectomy; 2 lobes (bilobectomy)	Lung resection
32480	Removal of lung, other than pneumonectomy; single lobe (lobectomy)	Lung resection
32445	Removal of lung, pneumonectomy; extrapleural	Lung resection
32442	Removal of lung, pneumonectomy; with resection of segment of trachea followed by broncho-tracheal anastomosis (sleeve pneumonectomy)	Lung resection
32440	Removal of lung, pneumonectomy;	Lung resection
32505	Thoracotomy; with therapeutic wedge resection (eg, mass, nodule), initial	Lung resection
32854	Lung transplant, double (bilateral sequential or en bloc); with cardiopulmonary bypass	Lung transplant
32853	Lung transplant, double (bilateral sequential or en bloc); without cardiopulmonary bypass	Lung transplant
32852	Lung transplant, single; with cardiopulmonary bypass	Lung transplant
32851	Lung transplant, single; without cardiopulmonary bypass	Lung transplant
38572	Laparoscopy, surgical; with bilateral total pelvic lymphadenectomy and peri-aortic lymph node sampling (biopsy), single or multiple	Lymphadenectomy
38571	Laparoscopy, surgical; with bilateral total pelvic lymphadenectomy	Lymphadenectomy
38573	Laparoscopy, surgical; with bilateral total pelvic lymphadenectomy and peri-aortic lymph node sampling, peritoneal washings, peritoneal biopsy(ies), omentectomy, and diaphragmatic washings, including diaphragmatic and other serosal biopsy(ies), when performed	Lymphadenectomy
38770	Pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes (separate procedure)	Lymphadenectomy
38562	Limited lymphadenectomy for staging (separate procedure); pelvic and para-aortic	Lymphadenectomy
38780	Retroperitoneal transabdominal lymphadenectomy, extensive, including pelvic, aortic, and renal nodes (separate procedure)	Lymphadenectomy
38564	Limited lymphadenectomy for staging (separate procedure); retroperitoneal (aortic and/or splenic)	Lymphadenectomy
38745	Axillary lymphadenectomy; complete	Lymphadenectomy
38740	Axillary lymphadenectomy; superficial	Lymphadenectomy
38724	Cervical lymphadenectomy (modified radical neck dissection)	Lymphadenectomy
38720	Cervical lymphadenectomy (complete)	Lymphadenectomy
38700	Suprahyoid lymphadenectomy	Lymphadenectomy
38542	Dissection, deep jugular node(s)	Lymphadenectomy
38765	Inguinofemoral lymphadenectomy, superficial, in continuity with pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes (separate procedure)	Lymphadenectomy
38760	Inguinofemoral lymphadenectomy, superficial, including Cloquets node (separate procedure)	Lymphadenectomy
38308	Lymphangiectomy or other operations on lymphatic channels	Lymphangiectomy or other operations on lymphatic channels
58740	Lysis of adhesions (salpingolysis, ovariolysis)	Lysis of adhesions (salpingolysis, ovariolysis)
32820	Major reconstruction, chest wall (posttraumatic)	Major reconstruction, chest wall
21270	Malar augmentation, prosthetic material	Malar augmentation
19325	Mammoplasty, augmentation; with prosthetic implant	Mammoplasty, augmentation
19324	Mammoplasty, augmentation; without prosthetic implant	Mammoplasty, augmentation
19318	Reduction mammoplasty	Mammoplasty, augmentation
47362	Management of liver hemorrhage; re-exploration of hepatic wound for removal of packing	Management of liver hemorrhage
47361	Management of liver hemorrhage; exploration of hepatic wound, extensive debridement, coagulation and/or suture, with or without packing of liver	Management of liver hemorrhage
47360	Management of liver hemorrhage; complex suture of liver wound or injury, with or without hepatic artery ligation	Management of liver hemorrhage

Continued		
Code	Code description	Procedure type
47350	Management of liver hemorrhage; simple suture of liver wound or injury	Management of liver hemorrhage
47300	Marsupialization of cyst or abscess of liver	Marsupialization of cyst or abscess of liver
53240	Marsupialization of urethral diverticulum, male or female	Marsupialization of urethral diverticulum, male or female
69670	Mastoid obliteration (separate procedure)	Mastoid obliteration
69511	Mastoidectomy; radical	Mastoidectomy
69505	Mastoidectomy; modified radical	Mastoidectomy
69502	Mastoidectomy; complete	Mastoidectomy
69501	Transmastoid antrotomy (simple mastoidectomy)	Mastoidectomy
69605	Revision mastoidectomy; with apicectomy	Mastoidectomy
69604	Revision mastoidectomy; resulting in tympanoplasty	Mastoidectomy
69603	Revision mastoidectomy; resulting in radical mastoidectomy	Mastoidectomy
69602	Revision mastoidectomy; resulting in modified radical mastoidectomy	Mastoidectomy
69601	Revision mastoidectomy; resulting in complete mastoidectomy	Mastoidectomy
69530	Petrous apicectomy including radical mastoidectomy	Mastoidectomy
19316	Mastopexy	Mastopexy
31230	Maxillectomy; with orbital exenteration (en bloc)	Maxillectomy
31225	Maxillectomy; without orbital exenteration	Maxillectomy
39000	Mediastinotomy with exploration, drainage, removal of foreign body, or biopsy; cervical approach	Medianstintomy
39010	Mediastinotomy with exploration, drainage, removal of foreign body, or biopsy; transthoracic approach, including either transthoracic or median sternotomy	Medianstintomy
21060	Meniscectomy, partial or complete, temporomandibular joint (separate procedure)	Meniscectomy of temporomandibular joint
65125	Modification of ocular implant with placement or replacement of pegs (eg, drilling receptacle for prosthesis appendage) (separate procedure)	Modification of ocular implant with placement or replacement of pegs
17313	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), of the trunk, arms, or legs; first stage, up to 5 tissue blocks	Mohs micrographic technique
17311	Mohs micrographic technique, including removal of all gross tumor, surgical excision of tissue specimens, mapping, color coding of specimens, microscopic examination of specimens by the surgeon, and histopathologic preparation including routine stain(s) (eg, hematoxylin and eosin, toluidine blue), head, neck, hands, feet, genitalia, or any location with surgery directly involving muscle, cartilage, bone, tendon, major nerves, or vessels; first stage, up to 5 tissue blocks	Mohs micrographic technique
65600	Multiple punctures of anterior cornea (eg, for corneal erosion, tattoo)	Multiple punctures of anterior cornea (eg, for corneal erosion, tattoo)
26591	Repair, intrinsic muscles of hand, each muscle	Muscle repair, hand
23397	Muscle transfer, any type, shoulder or upper arm; multiple	Muscle transfer, upper extremity
23395	Muscle transfer, any type, shoulder or upper arm; single	Muscle transfer, upper extremity
33542	Myocardial resection (eg, ventricular aneurysmectomy)	Myocardial resection
58146	Myomectomy, excision of fibroid tumor(s) of uterus, 5 or more intramural myomas and/or intramural myomas with total weight greater than 250 g, abdominal approach	Myomectomy, fibroid
58140	Myomectomy, excision of fibroid tumor(s) of uterus, 1 to 4 intramural myoma(s) with total weight of 250 g or less and/or removal of surface myomas; abdominal approach	Myomectomy, fibroid
58145	Myomectomy, excision of fibroid tumor(s) of uterus, 1 to 4 intramural myoma(s) with total weight of 250 g or less and/or removal of surface myomas; vaginal approach	Myomectomy, fibroid
45108	Anorectal myomectomy	Myomectomy, anorectal
20912	Cartilage graft; nasal septum	Nasal septum reconstruction
31294	Nasal/sinus endoscopy, surgical; with optic nerve decompression	Nasal/sinus endoscopy
31293	Nasal/sinus endoscopy, surgical; with medial orbital wall and inferior orbital wall decompression	Nasal/sinus endoscopy
31292	Nasal/sinus endoscopy, surgical; with medial or inferior orbital wall decompression	Nasal/sinus endoscopy
31291	Nasal/sinus endoscopy, surgical, with repair of cerebrospinal fluid leak; sphenoid region	Nasal/sinus endoscopy
31290	Nasal/sinus endoscopy, surgical, with repair of cerebrospinal fluid leak; ethmoid region	Nasal/sinus endoscopy
50236	Nephrectomy with total ureterectomy and bladder cuff; through separate incision	Nephrectomy - open

Continued		
Code	Code description	Procedure type
50234	Nephrectomy with total ureterectomy and bladder cuff; through same incision	Nephrectomy - open
50230	Nephrectomy, including partial ureterectomy, any open approach including rib resection; radical, with regional lymphadenectomy and/or vena caval thrombectomy	Nephrectomy - open
50225	Nephrectomy, including partial ureterectomy, any open approach including rib resection; complicated because of previous surgery on same kidney	Nephrectomy - open
50220	Nephrectomy, including partial ureterectomy, any open approach including rib resection;	Nephrectomy - open
50240	Nephrectomy, partial	Nephrectomy - open
50500	Nephrorrhaphy, suture of kidney wound or injury	Nephrolithotomy
50075	Nephrolithotomy; removal of large staghorn calculus filling renal pelvis and calyces (including anatomic pyelolithotomy)	Nephrolithotomy
50070	Nephrolithotomy; complicated by congenital kidney abnormality	Nephrolithotomy
50065	Nephrolithotomy; secondary surgical operation for calculus	Nephrolithotomy
50060	Nephrolithotomy; removal of calculus	Nephrolithotomy
50040	Nephrostomy, nephrotomy with drainage	Nephrostomy and/or nephrotomy
50045	Nephrotomy, with exploration	Nephrostomy and/or nephrotomy
64861	Suture of; brachial plexus	Nerve repair
64857	Suture of major peripheral nerve, arm or leg, except sciatic; without transposition	Nerve repair
64856	Suture of major peripheral nerve, arm or leg, except sciatic; including transposition	Nerve repair
64840	Suture of posterior tibial nerve	Nerve repair
64865	Suture of facial nerve; infratemporal, with or without grafting	Nerve repair
64864	Suture of facial nerve; extracranial	Nerve repair
64912	Nerve repair; with nerve allograft, each nerve, first strand (cable)	Nerve repair
64911	Nerve repair; with autogenous vein graft (includes harvest of vein graft), each nerve	Nerve repair
64907	Nerve pedicle transfer; second stage	Nerve repair
64905	Nerve pedicle transfer; first stage	Nerve repair
64898	Nerve graft (includes obtaining graft), multiple strands (cable), arm or leg; more than 4 cm length	Nerve repair
64897	Nerve graft (includes obtaining graft), multiple strands (cable), arm or leg; up to 4 cm length	Nerve repair
64896	Nerve graft (includes obtaining graft), multiple strands (cable), hand or foot; more than 4 cm length	Nerve repair
64895	Nerve graft (includes obtaining graft), multiple strands (cable), hand or foot; up to 4 cm length	Nerve repair
64893	Nerve graft (includes obtaining graft), single strand, arm or leg; more than 4 cm length	Nerve repair
64892	Nerve graft (includes obtaining graft), single strand, arm or leg; up to 4 cm length	Nerve repair
64891	Nerve graft (includes obtaining graft), single strand, hand or foot; more than 4 cm length	Nerve repair
64890	Nerve graft (includes obtaining graft), single strand, hand or foot; up to 4 cm length	Nerve repair
64886	Nerve graft (includes obtaining graft), head or neck; more than 4 cm length	Nerve repair
64910	Nerve repair; with synthetic conduit or vein allograft (eg, nerve tube), each nerve	Nerve repair
64885	Nerve graft (includes obtaining graft), head or neck; up to 4 cm in length	Nerve repair
64716	Neuroplasty and/or transposition; cranial nerve (specify)	Nerve repair
64714	Neuroplasty, major peripheral nerve, arm or leg - open; lumbar plexus	Nerve repair
64713	Neuroplasty, major peripheral nerve, arm or leg - open; brachial plexus	Nerve repair
64712	Neuroplasty, major peripheral nerve, arm or leg - open; sciatic nerve	Nerve repair
64708	Neuroplasty, major peripheral nerve, arm or leg - open; other than specified	Nerve repair
64704	Neuroplasty; nerve of hand or foot	Nerve repair
64702	Neuroplasty; digital, 1 or both, same digit	Nerve repair
64836	Suture of 1 nerve; ulnar motor	Nerve repair
64835	Suture of 1 nerve; median motor thenar	Nerve repair
64834	Suture of 1 nerve; hand or foot, common sensory nerve	Nerve repair
64831	Suture of digital nerve, hand or foot; 1 nerve	Nerve repair
64862	Suture of; lumbar plexus	Nerve repair
64858	Suture of sciatic nerve	Nerve repair
64772	Transection or avulsion of other spinal nerve, extradural	Nerve transection
64771	Transection or avulsion of other cranial nerve, extradural	Nerve transection

Continued		
Code	Code description	Procedure type
64744	Transection or avulsion of; greater occipital nerve	Nerve transection
64742	Transection or avulsion of; facial nerve, differential or complete	Nerve transection
64740	Transection or avulsion of; lingual nerve	Nerve transection
64738	Transection or avulsion of; inferior alveolar nerve by osteotomy	Nerve transection
64736	Transection or avulsion of; mental nerve	Nerve transection
64734	Transection or avulsion of; infraorbital nerve	Nerve transection
64732	Transection or avulsion of; supraorbital nerve	Nerve transection
64766	Transection or avulsion of obturator nerve, intrapelvic, with or without adductor tenotomy	Nerve transection
64763	Transection or avulsion of obturator nerve, extrapelvic, with or without adductor tenotomy	Nerve transection
64746	Transection or avulsion of; phrenic nerve	Nerve transection
64761	Transection or avulsion of; pudendal nerve	Nerve transection
64760	Transection or avulsion of; vagus nerve (vagusotomy), abdominal	Nerve transection
64755	Transection or avulsion of; vagus nerves limited to proximal stomach (selective proximal vagotomy, proximal gastric vagotomy, parietal cell vagotomy, supra- or highly selective vagotomy)	Nerve transection
64752	Transection or avulsion of; vagus nerve (vagusotomy), transthoracic	Nerve transection
28055	Neurectomy, intrinsic musculature of foot	Neurectomy
27326	Neurectomy, popliteal (gastrocnemius)	Neurectomy
27325	Neurectomy, hamstring muscle	Neurectomy
62165	Neuroendoscopy, intracranial; with excision of pituitary tumor, transnasal or trans-sphenoidal approach	Neuroendoscopy, intracranial
62164	Neuroendoscopy, intracranial; with excision of brain tumor, including placement of external ventricular catheter for drainage	Neuroendoscopy, intracranial
62163	Neuroendoscopy, intracranial; with retrieval of foreign body	Neuroendoscopy, intracranial
62162	Neuroendoscopy, intracranial; with fenestration or excision of colloid cyst, including placement of external ventricular catheter for drainage	Neuroendoscopy, intracranial
62161	Neuroendoscopy, intracranial; with dissection of adhesions, fenestration of septum pellucidum or intraventricular cysts (including placement, replacement, or removal of ventricular catheter)	Neuroendoscopy, intracranial
69955	Total facial nerve decompression and/or repair (may include graft)	Nerve decompression
69725	Decompression facial nerve, intratemporal; including medial to geniculate ganglion	Nerve decompression
69720	Decompression facial nerve, intratemporal; lateral to geniculate ganglion	Nerve decompression
64721	Neuroplasty and/or transposition; median nerve at carpal tunnel	Nerve decompression
64726	Decompression; plantar digital nerve	Nerve decompression
64719	Neuroplasty and/or transposition; ulnar nerve at wrist	Nerve decompression
64718	Neuroplasty and/or transposition; ulnar nerve at elbow	Nerve decompression
64722	Decompression; unspecified nerve(s) (specify)	Nerve decompression
19110	Nipple exploration, with or without excision of a solitary lactiferous duct or a papilloma lactiferous duct	Nipple exploration or reconstruction
19355	Correction of inverted nipples	Nipple exploration or reconstruction
19350	Nipple/areola reconstruction	Nipple exploration or reconstruction
46707	Repair of anorectal fistula with plug (eg, porcine small intestine submucosa [SIS])	Non-surgical repair of anal or anorectal fistula
46706	Repair of anal fistula with fibrin glue	Non-surgical repair of anal or anorectal fistula
33814	Obliteration of aortopulmonary septal defect; with cardiopulmonary bypass	Obliteration of aortopulmonary septal defect
33813	Obliteration of aortopulmonary septal defect; without cardiopulmonary bypass	Obliteration of aortopulmonary septal defect
61613	Obliteration of carotid aneurysm, arteriovenous malformation, or carotid-cavernous fistula by dissection within cavernous sinus	Obliteration of carotid aneurysm, arteriovenous malformation, or carotid-cavernous fistula by dissection within cavernous sinus
58615	Occlusion of fallopian tube(s) by device (eg, band, clip, Falope ring) vaginal or suprapubic approach	Occlusion of fallopian tube(s) by device

Continued		
Code	Code description	Procedure type
65782	Ocular surface reconstruction; limbal conjunctival autograft (includes obtaining graft)	Ocular surface reconstruction
65781	Ocular surface reconstruction; limbal stem cell allograft (eg, cadaveric or living donor)	Ocular surface reconstruction
65780	Ocular surface reconstruction; amniotic membrane transplantation, multiple layers	Ocular surface reconstruction
49255	Omentectomy, epiploectomy, resection of omentum (separate procedure)	Omentectomy, epiploectomy, resection of omentum
58940	Oophorectomy, partial or total, unilateral or bilateral;	Oophorectomy
58920	Wedge resection or bisection of ovary, unilateral or bilateral	Oophorectomy
58943	Oophorectomy, partial or total, unilateral or bilateral; for ovarian, tubal or primary peritoneal malignancy, with para-aortic and pelvic lymph node biopsies, peritoneal washings, peritoneal biopsies, diaphragmatic assessments, with or without salpingectomy(s), with or without omentectomy	Oophorectomy
23532	Open treatment of sternoclavicular dislocation, acute or chronic; with fascial graft (includes obtaining graft)	Open treatment of clavicle fracture
23530	Open treatment of sternoclavicular dislocation, acute or chronic;	Open treatment of clavicle fracture
23515	Open treatment of clavicular fracture, includes internal fixation, when performed	Open treatment of clavicle fracture
21490	Open treatment of temporomandibular dislocation	Open treatment of facial fractures
21470	Open treatment of complicated mandibular fracture by multiple surgical approaches including internal fixation, interdental fixation, and/or wiring of dentures or splints	Open treatment of facial fractures
21465	Open treatment of mandibular condylar fracture	Open treatment of facial fractures
21462	Open treatment of mandibular fracture; with interdental fixation	Open treatment of facial fractures
21461	Open treatment of mandibular fracture; without interdental fixation	Open treatment of facial fractures
21454	Open treatment of mandibular fracture with external fixation	Open treatment of facial fractures
21445	Open treatment of mandibular or maxillary alveolar ridge fracture (separate procedure)	Open treatment of facial fractures
21435	Open treatment of craniofacial separation (LeFort III type); complicated, utilizing internal and/or external fixation techniques (eg, head cap, halo device, and/or intermaxillary fixation)	Open treatment of facial fractures
21433	Open treatment of craniofacial separation (LeFort III type); complicated (eg, comminuted or involving cranial nerve foramina), multiple surgical approaches	Open treatment of facial fractures
21432	Open treatment of craniofacial separation (LeFort III type); with wiring and/or internal fixation	Open treatment of facial fractures
21422	Open treatment of palatal or maxillary fracture (LeFort I type);	Open treatment of facial fractures
21408	Open treatment of fracture of orbit, except blowout; with bone grafting (includes obtaining graft)	Open treatment of facial fractures
21407	Open treatment of fracture of orbit, except blowout; with implant	Open treatment of facial fractures
21423	Open treatment of palatal or maxillary fracture (LeFort I type); complicated (comminuted or involving cranial nerve foramina), multiple approaches	Open treatment of facial fractures
21406	Open treatment of fracture of orbit, except blowout; without implant	Open treatment of facial fractures
21395	Open treatment of orbital floor blowout fracture; periorbital approach with bone graft (includes obtaining graft)	Open treatment of facial fractures
21390	Open treatment of orbital floor blowout fracture; periorbital approach, with alloplastic or other implant	Open treatment of facial fractures
21387	Open treatment of orbital floor blowout fracture; combined approach	Open treatment of facial fractures
21386	Open treatment of orbital floor blowout fracture; periorbital approach	Open treatment of facial fractures
21385	Open treatment of orbital floor blowout fracture; transantral approach (Caldwell-Luc type operation)	Open treatment of facial fractures
21366	Open treatment of complicated (eg, comminuted or involving cranial nerve foramina) fracture(s) of malar area, including zygomatic arch and malar tripod; with bone grafting (includes obtaining graft)	Open treatment of facial fractures
21365	Open treatment of complicated (eg, comminuted or involving cranial nerve foramina) fracture(s) of malar area, including zygomatic arch and malar tripod; with internal fixation and multiple surgical approaches	Open treatment of facial fractures
21436	Open treatment of craniofacial separation (LeFort III type); complicated, multiple surgical approaches, internal fixation, with bone grafting (includes obtaining graft)	Open treatment of facial fractures
21360	Open treatment of depressed malar fracture, including zygomatic arch and malar tripod	Open treatment of facial fractures
21356	Open treatment of depressed zygomatic arch fracture (eg, Gillies approach)	Open treatment of facial fractures
21348	Open treatment of nasomaxillary complex fracture (LeFort II type); with bone grafting (includes obtaining graft)	Open treatment of facial fractures

Continued		
Code	Code description	Procedure type
21347	Open treatment of nasomaxillary complex fracture (LeFort II type); requiring multiple open approaches	Open treatment of facial fractures
21495	Open treatment of hyoid fracture	Open treatment of facial fractures
21346	Open treatment of nasomaxillary complex fracture (LeFort II type); with wiring and/or local fixation	Open treatment of facial fractures
21344	Open treatment of complicated (eg, comminuted or involving posterior wall) frontal sinus fracture, via coronal or multiple approaches	Open treatment of facial fractures
21343	Open treatment of depressed frontal sinus fracture	Open treatment of facial fractures
21339	Open treatment of nasoethmoid fracture; with external fixation	Open treatment of facial fractures
21338	Open treatment of nasoethmoid fracture; without external fixation	Open treatment of facial fractures
21336	Open treatment of nasal septal fracture, with or without stabilization	Open treatment of facial fractures
21335	Open treatment of nasal fracture; with concomitant open treatment of fractured septum	Open treatment of facial fractures
21330	Open treatment of nasal fracture; complicated, with internal and/or external skeletal fixation	Open treatment of facial fractures
21325	Open treatment of nasal fracture; uncomplicated	Open treatment of facial fractures
27513	Open treatment of femoral supracondylar or transcondylar fracture with intercondylar extension, includes internal fixation, when performed	Open treatment of fracture, hip or pelvis
27511	Open treatment of femoral supracondylar or transcondylar fracture without intercondylar extension, includes internal fixation, when performed	Open treatment of fracture, hip or pelvis
27507	Open treatment of femoral shaft fracture with plate/screws, with or without cerclage	Open treatment of fracture, hip or pelvis
27506	Open treatment of femoral shaft fracture, with or without external fixation, with insertion of intramedullary implant, with or without cerclage and/or locking screws	Open treatment of fracture, hip or pelvis
27269	Open treatment of femoral fracture, proximal end, head, includes internal fixation, when performed	Open treatment of fracture, hip or pelvis
27259	Open treatment of spontaneous hip dislocation (developmental, including congenital or pathological), replacement of femoral head in acetabulum (including tenotomy, etc); with femoral shaft shortening	Open treatment of fracture, hip or pelvis
27258	Open treatment of spontaneous hip dislocation (developmental, including congenital or pathological), replacement of femoral head in acetabulum (including tenotomy, etc);	Open treatment of fracture, hip or pelvis
27254	Open treatment of hip dislocation, traumatic, with acetabular wall and femoral head fracture, with or without internal or external fixation	Open treatment of fracture, hip or pelvis
27253	Open treatment of hip dislocation, traumatic, without internal fixation	Open treatment of fracture, hip or pelvis
27248	Open treatment of greater trochanteric fracture, includes internal fixation, when performed	Open treatment of fracture, hip or pelvis
27245	Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with intramedullary implant, with or without interlocking screws and/or cerclage	Open treatment of fracture, hip or pelvis
27244	Treatment of intertrochanteric, peritrochanteric, or subtrochanteric femoral fracture; with plate/screw type implant, with or without cerclage	Open treatment of fracture, hip or pelvis
27236	Open treatment of femoral fracture, proximal end, neck, internal fixation or prosthetic replacement	Open treatment of fracture, hip or pelvis
27228	Open treatment of acetabular fracture(s) involving anterior and posterior (2) columns, includes T-fracture and both column fracture with complete articular detachment, or single column or transverse fracture with associated acetabular wall fracture, with internal fixation	Open treatment of fracture, hip or pelvis
27227	Open treatment of acetabular fracture(s) involving anterior or posterior (1) column, or a fracture running transversely across the acetabulum, with internal fixation	Open treatment of fracture, hip or pelvis
27226	Open treatment of posterior or anterior acetabular wall fracture, with internal fixation	Open treatment of fracture, hip or pelvis
27218	Open treatment of posterior pelvic bone fracture and/or dislocation, for fracture patterns that disrupt the pelvic ring, unilateral, includes internal fixation, when performed (includes ipsilateral ilium, sacroiliac joint and/or sacrum)	Open treatment of fracture, hip or pelvis
27217	Open treatment of anterior pelvic bone fracture and/or dislocation for fracture patterns that disrupt the pelvic ring, unilateral, includes internal fixation, when performed (includes pubic symphysis and/or ipsilateral superior/inferior rami)	Open treatment of fracture, hip or pelvis
27215	Open treatment of iliac spine(s), tuberosity avulsion, or iliac wing fracture(s), unilateral, for pelvic bone fracture patterns that do not disrupt the pelvic ring, includes internal fixation, when performed	Open treatment of fracture, hip or pelvis
27848	Open treatment of ankle dislocation, with or without percutaneous skeletal fixation; with repair or internal or external fixation	Open treatment of fracture, lower extremity

Continued		
Code	Code description	Procedure type
27846	Open treatment of ankle dislocation, with or without percutaneous skeletal fixation; without repair or internal fixation	Open treatment of fracture, lower extremity
27829	Open treatment of distal tibiofibular joint (syndesmosis) disruption, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27828	Open treatment of fracture of weight bearing articular surface/portion of distal tibia (eg, pilon or tibial plafond), with internal fixation, when performed; of both tibia and fibula	Open treatment of fracture, lower extremity
27827	Open treatment of fracture of weight bearing articular surface/portion of distal tibia (eg, pilon or tibial plafond), with internal fixation, when performed; of tibia only	Open treatment of fracture, lower extremity
27826	Open treatment of fracture of weight bearing articular surface/portion of distal tibia (eg, pilon or tibial plafond), with internal fixation, when performed; of fibula only	Open treatment of fracture, lower extremity
27823	Open treatment of trimalleolar ankle fracture, includes internal fixation, when performed, medial and/or lateral malleolus; with fixation of posterior lip	Open treatment of fracture, lower extremity
27822	Open treatment of trimalleolar ankle fracture, includes internal fixation, when performed, medial and/or lateral malleolus; without fixation of posterior lip	Open treatment of fracture, lower extremity
27814	Open treatment of bimalleolar ankle fracture (eg, lateral and medial malleoli, or lateral and posterior malleoli, or medial and posterior malleoli), includes internal fixation, when performed	Open treatment of fracture, lower extremity
27792	Open treatment of distal fibular fracture (lateral malleolus), includes internal fixation, when performed	Open treatment of fracture, lower extremity
27784	Open treatment of proximal fibula or shaft fracture, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27769	Open treatment of posterior malleolus fracture, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27766	Open treatment of medial malleolus fracture - open, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27519	Open treatment of distal femoral epiphyseal separation, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27514	Open treatment of femoral fracture, distal end, medial or lateral condyle, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28645	Open treatment of metatarsophalangeal joint dislocation, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28615	Open treatment of tarsometatarsal joint dislocation, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28585	Open treatment of talotarsal joint dislocation, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28555	Open treatment of tarsal bone dislocation, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28531	Open treatment of sesamoid fracture, with or without internal fixation	Open treatment of fracture, lower extremity
28525	Open treatment of fracture, phalanx or phalanges, other than great toe, includes internal fixation, when performed, each	Open treatment of fracture, lower extremity
28505	Open treatment of fracture, great toe, phalanx or phalanges, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28485	Open treatment of metatarsal fracture, includes internal fixation, when performed, each	Open treatment of fracture, lower extremity
28465	Open treatment of tarsal bone fracture (except talus and calcaneus), includes internal fixation, when performed, each	Open treatment of fracture, lower extremity
28445	Open treatment of talus fracture, includes internal fixation, when performed	Open treatment of fracture, lower extremity
28420	Open treatment of calcaneal fracture, includes internal fixation, when performed; with primary iliac or other autogenous bone graft (includes obtaining graft)	Open treatment of fracture, lower extremity
28415	Open treatment of calcaneal fracture, includes internal fixation, when performed;	Open treatment of fracture, lower extremity
27832	Open treatment of proximal tibiofibular joint dislocation, includes internal fixation, when performed, or with excision of proximal fibula	Open treatment of fracture, lower extremity
27566	Open treatment of patellar dislocation, with or without partial or total patellectomy	Open treatment of fracture, lower extremity
27558	Open treatment of knee dislocation, includes internal fixation, when performed; with primary ligamentous repair, with augmentation/reconstruction	Open treatment of fracture, lower extremity
27557	Open treatment of knee dislocation, includes internal fixation, when performed; with primary ligamentous repair	Open treatment of fracture, lower extremity
27556	Open treatment of knee dislocation, includes internal fixation, when performed; without primary ligamentous repair or augmentation/reconstruction	Open treatment of fracture, lower extremity
27540	Open treatment of intercondylar spine(s) and/or tuberosity fracture(s) of the knee, includes internal fixation, when performed	Open treatment of fracture, lower extremity

Continued		
Code	Code description	Procedure type
27536	Open treatment of tibial fracture, proximal (plateau); bicondylar, with or without internal fixation	Open treatment of fracture, lower extremity
27535	Open treatment of tibial fracture, proximal (plateau); unicondylar, includes internal fixation, when performed	Open treatment of fracture, lower extremity
27524	Open treatment of patellar fracture, with internal fixation and/or partial or complete patellectomy and soft tissue repair	Open treatment of fracture, lower extremity
27759	Treatment of tibial shaft fracture (with or without fibular fracture) by intramedullary implant, with or without interlocking screws and/or cerclage	Open treatment of fracture, lower extremity
27758	Open treatment of tibial shaft fracture (with or without fibular fracture), with plate/screws, with or without cerclage	Open treatment of fracture, lower extremity
24685	Open treatment of ulnar fracture, proximal end (eg, olecranon or coronoid process(es)), includes internal fixation, when performed	Open treatment of fracture, upper extremity
24666	Open treatment of radial head or neck fracture, includes internal fixation or radial head excision, when performed; with radial head prosthetic replacement	Open treatment of fracture, upper extremity
24665	Open treatment of radial head or neck fracture, includes internal fixation or radial head excision, when performed;	Open treatment of fracture, upper extremity
24635	Open treatment of Monteggia type of fracture dislocation at elbow (fracture proximal end of ulna with dislocation of radial head), includes internal fixation, when performed	Open treatment of fracture, upper extremity
24615	Open treatment of acute or chronic elbow dislocation	Open treatment of fracture, upper extremity
24587	Open treatment of periarticular fracture and/or dislocation of the elbow (fracture distal humerus and proximal ulna and/or proximal radius); with implant arthroplasty	Open treatment of fracture, upper extremity
24586	Open treatment of periarticular fracture and/or dislocation of the elbow (fracture distal humerus and proximal ulna and/or proximal radius);	Open treatment of fracture, upper extremity
25575	Open treatment of radial AND ulnar shaft fractures, with internal fixation, when performed; of radius AND ulna	Open treatment of fracture, upper extremity
25574	Open treatment of radial AND ulnar shaft fractures, with internal fixation, when performed; of radius OR ulna	Open treatment of fracture, upper extremity
25545	Open treatment of ulnar shaft fracture, includes internal fixation, when performed	Open treatment of fracture, upper extremity
25526	Open treatment of radial shaft fracture, includes internal fixation, when performed, and open treatment of distal radioulnar joint dislocation (Galeazzi fracture/ dislocation), includes internal fixation, when performed, includes repair of triangular fibrocartilage complex	Open treatment of fracture, upper extremity
25525	Open treatment of radial shaft fracture, includes internal fixation, when performed, and closed treatment of distal radioulnar joint dislocation (Galeazzi fracture/ dislocation), includes percutaneous skeletal fixation, when performed	Open treatment of fracture, upper extremity
25515	Open treatment of radial shaft fracture, includes internal fixation, when performed	Open treatment of fracture, upper extremity
28675	Open treatment of interphalangeal joint dislocation, includes internal fixation, when performed	Open treatment of fracture, upper extremity
26785	Open treatment of interphalangeal joint dislocation, includes internal fixation, when performed, single	Open treatment of fracture, upper extremity
26765	Open treatment of distal phalangeal fracture, finger or thumb, includes internal fixation, when performed, each	Open treatment of fracture, upper extremity
26746	Open treatment of articular fracture, involving metacarpophalangeal or interphalangeal joint, includes internal fixation, when performed, each	Open treatment of fracture, upper extremity
26735	Open treatment of phalangeal shaft fracture, proximal or middle phalanx, finger or thumb, includes internal fixation, when performed, each	Open treatment of fracture, upper extremity
26715	Open treatment of metacarpophalangeal dislocation, single, includes internal fixation, when performed	Open treatment of fracture, upper extremity
26686	Open treatment of carpometacarpal dislocation, other than thumb; complex, multiple, or delayed reduction	Open treatment of fracture, upper extremity
26685	Open treatment of carpometacarpal dislocation, other than thumb; includes internal fixation, when performed, each joint	Open treatment of fracture, upper extremity
26665	Open treatment of carpometacarpal fracture dislocation, thumb (Bennett fracture), includes internal fixation, when performed	Open treatment of fracture, upper extremity
26615	Open treatment of metacarpal fracture, single, includes internal fixation, when performed, each bone	Open treatment of fracture, upper extremity
24579	Open treatment of humeral condylar fracture, medial or lateral, includes internal fixation, when performed	Open treatment of fracture, upper extremity
24575	Open treatment of humeral epicondylar fracture, medial or lateral, includes internal fixation, when performed	Open treatment of fracture, upper extremity

Continued		
Code	Code description	Procedure type
24546	Open treatment of humeral supracondylar or transcondylar fracture, includes internal fixation, when performed; with intercondylar extension	Open treatment of fracture, upper extremity
24545	Open treatment of humeral supracondylar or transcondylar fracture, includes internal fixation, when performed; without intercondylar extension	Open treatment of fracture, upper extremity
24516	Treatment of humeral shaft fracture, with insertion of intramedullary implant, with or without cerclage and/or locking screws	Open treatment of fracture, upper extremity
24515	Open treatment of humeral shaft fracture with plate/screws, with or without cerclage	Open treatment of fracture, upper extremity
23680	Open treatment of shoulder dislocation, with surgical or anatomical neck fracture, includes internal fixation, when performed	Open treatment of fracture, upper extremity
23670	Open treatment of shoulder dislocation, with fracture of greater humeral tuberosity, includes internal fixation, when performed	Open treatment of fracture, upper extremity
23660	Open treatment of acute shoulder dislocation	Open treatment of fracture, upper extremity
23630	Open treatment of greater humeral tuberosity fracture, includes internal fixation, when performed	Open treatment of fracture, upper extremity
23616	Open treatment of proximal humeral (surgical or anatomical neck) fracture, includes internal fixation, when performed, includes repair of tuberosity(s), when performed; with proximal humeral prosthetic replacement	Open treatment of fracture, upper extremity
23615	Open treatment of proximal humeral (surgical or anatomical neck) fracture, includes internal fixation, when performed, includes repair of tuberosity(s), when performed;	Open treatment of fracture, upper extremity
23585	Open treatment of scapular fracture (body, glenoid or acromion) includes internal fixation, when performed	Open treatment of fracture, upper extremity
23552	Open treatment of acromioclavicular dislocation, acute or chronic; with fascial graft (includes obtaining graft)	Open treatment of fracture, upper extremity
23550	Open treatment of acromioclavicular dislocation, acute or chronic;	Open treatment of fracture, upper extremity
25695	Open treatment of lunate dislocation	Open treatment of fracture, upper extremity
25685	Open treatment of trans-scaphoperilunar type of fracture dislocation	Open treatment of fracture, upper extremity
25676	Open treatment of distal radioulnar dislocation, acute or chronic	Open treatment of fracture, upper extremity
25670	Open treatment of radiocarpal or intercarpal dislocation, 1 or more bones	Open treatment of fracture, upper extremity
25652	Open treatment of ulnar styloid fracture	Open treatment of fracture, upper extremity
25645	Open treatment of carpal bone fracture (other than carpal scaphoid [navicular]), each bone	Open treatment of fracture, upper extremity
25628	Open treatment of carpal scaphoid (navicular) fracture, includes internal fixation, when performed	Open treatment of fracture, upper extremity
25609	Open treatment of distal radial intra-articular fracture or epiphyseal separation; with internal fixation of 3 or more fragments	Open treatment of fracture, upper extremity
25608	Open treatment of distal radial intra-articular fracture or epiphyseal separation; with internal fixation of 2 fragments	Open treatment of fracture, upper extremity
25607	Open treatment of distal radial extra-articular fracture or epiphyseal separation, with internal fixation	Open treatment of fracture, upper extremity
21825	Open treatment of sternum fracture with or without skeletal fixation	Open treatment of rib fracture
21813	Open treatment of rib fracture(s) with internal fixation, includes thoracoscopic visualization when performed, unilateral; 7 or more ribs	Open treatment of rib fracture
21812	Open treatment of rib fracture(s) with internal fixation, includes thoracoscopic visualization when performed, unilateral; 4-6 ribs	Open treatment of rib fracture
21811	Open treatment of rib fracture(s) with internal fixation, includes thoracoscopic visualization when performed, unilateral; 1-3 ribs	Open treatment of rib fracture
21805	Open treatment of rib fracture without fixation, each	Open treatment of rib fracture
27178	Open treatment of slipped femoral epiphysis; closed manipulation with single or multiple pinning	Open treatment of slipped femoral epiphysis
27181	Open treatment of slipped femoral epiphysis; osteotomy and internal fixation	Open treatment of slipped femoral epiphysis
27179	Open treatment of slipped femoral epiphysis; osteoplasty of femoral neck (Heyman type procedure)	Open treatment of slipped femoral epiphysis
27177	Open treatment of slipped femoral epiphysis; single or multiple pinning or bone graft (includes obtaining graft)	Open treatment of slipped femoral epiphysis
27176	Treatment of slipped femoral epiphysis; by single or multiple pinning, in situ	Open treatment of slipped femoral epiphysis

Continued		
Code	Code description	Procedure type
27175	Treatment of slipped femoral epiphysis; by traction, without reduction	Open treatment of slipped femoral epiphysis
27202	Open treatment of coccygeal fracture	Open treatment of spinal fracture
22327	Open treatment and/or reduction of vertebral fracture(s) and/or dislocation(s), posterior approach, 1 fractured vertebra or dislocated segment; thoracic	Open treatment of spinal fracture
22326	Open treatment and/or reduction of vertebral fracture(s) and/or dislocation(s), posterior approach, 1 fractured vertebra or dislocated segment; cervical	Open treatment of spinal fracture
22325	Open treatment and/or reduction of vertebral fracture(s) and/or dislocation(s), posterior approach, 1 fractured vertebra or dislocated segment; lumbar	Open treatment of spinal fracture
22319	Open treatment and/or reduction of odontoid fracture(s) and or dislocation(s) (including os odontoideum), anterior approach, including placement of internal fixation; with grafting	Open treatment of spinal fracture
22318	Open treatment and/or reduction of odontoid fracture(s) and or dislocation(s) (including os odontoideum), anterior approach, including placement of internal fixation; without grafting	Open treatment of spinal fracture
33261	Operative ablation of ventricular arrhythmogenic focus with cardiopulmonary bypass	Operative ablation of arrhythmogenic focus or pathway, with or without cardiopulmonary bypass
33251	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinson-White, atrioventricular node re-entry), tract(s) and/or focus (foci); with cardiopulmonary bypass	Operative ablation of arrhythmogenic focus or pathway, with or without cardiopulmonary bypass
33250	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinson-White, atrioventricular node re-entry), tract(s) and/or focus (foci); without cardiopulmonary bypass	Operative ablation of arrhythmogenic focus or pathway, with or without cardiopulmonary bypass
33266	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure), without cardiopulmonary bypass	Operative tissue ablation and reconstruction of atria - endoscopic
33265	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure), without cardiopulmonary bypass	Operative tissue ablation and reconstruction of atria - endoscopic
33256	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); with cardiopulmonary bypass	Operative tissue ablation and reconstruction of atria - open
33255	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); without cardiopulmonary bypass	Operative tissue ablation and reconstruction of atria - open
33254	Operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure)	Operative tissue ablation and reconstruction of atria - open
67570	Optic nerve decompression (eg, incision or fenestration of optic nerve sheath)	Optic nerve decompression
61592	Orbitocranial zygomatic approach to middle cranial fossa (cavernous sinus and carotid artery, clivus, basilar artery or petrous apex) including osteotomy of zygoma, craniotomy, extra- or intradural elevation of temporal lobe	Orbitocranial zygomatic approach to middle cranial fossa
67445	Orbitotomy with bone flap or window, lateral approach (eg, Kroenlein); with removal of bone for decompression	Orbitotomy
67440	Orbitotomy with bone flap or window, lateral approach (eg, Kroenlein); with drainage	Orbitotomy
67430	Orbitotomy with bone flap or window, lateral approach (eg, Kroenlein); with removal of foreign body	Orbitotomy
67420	Orbitotomy with bone flap or window, lateral approach (eg, Kroenlein); with removal of lesion	Orbitotomy
67414	Orbitotomy without bone flap (frontal or transconjunctival approach); with removal of bone for decompression	Orbitotomy
67413	Orbitotomy without bone flap (frontal or transconjunctival approach); with removal of foreign body	Orbitotomy
67412	Orbitotomy without bone flap (frontal or transconjunctival approach); with removal of lesion	Orbitotomy
54535	Orchiectomy, radical, for tumor; with abdominal exploration	Orchiectomy - open
54530	Orchiectomy, radical, for tumor; inguinal approach	Orchiectomy - open
54522	Orchiectomy, partial	Orchiectomy - open
54520	Orchiectomy, simple (including subcapsular), with or without testicular prosthesis, scrotal or inguinal approach	Orchiectomy - open
54692	Laparoscopy, surgical; orchiopexy for intra-abdominal testis	Orchiectomy - laparoscopic
54690	Laparoscopy, surgical; orchiectomy	Orchiectomy - laparoscopic
54650	Orchiopexy, abdominal approach, for intra-abdominal testis (eg, Fowler- Stephens)	Orchiopexy
54640	Orchiopexy, inguinal approach, with or without hernia repair	Orchiopexy
28288	Ostectomy, partial, exostectomy or condylectomy, metatarsal head, each metatarsal head	Ostectomy of foot and/or toes

Continued		
Code	Code description	Procedure type
28119	Ostectomy, calcaneus; for spur, with or without plantar fascial release	Ostectomy of foot and/or toes
28118	Ostectomy, calcaneus;	Ostectomy of foot and/or toes
28116	Ostectomy, excision of tarsal coalition	Ostectomy of foot and/or toes
28114	Ostectomy, complete excision; all metatarsal heads, with partial proximal phalangectomy, excluding first metatarsal (eg, Clayton type procedure)	Ostectomy of foot and/or toes
28113	Ostectomy, complete excision; fifth metatarsal head	Ostectomy of foot and/or toes
28112	Ostectomy, complete excision; other metatarsal head (second, third or fourth)	Ostectomy of foot and/or toes
28111	Ostectomy, complete excision; first metatarsal head	Ostectomy of foot and/or toes
28110	Ostectomy, partial excision, fifth metatarsal head (bunionette) (separate procedure)	Ostectomy of foot and/or toes
23190	Ostectomy of scapula, partial (eg, superior medial angle)	Ostectomy of scapula
27416	Osteochondral autograft(s), knee - open (eg, mosaicplasty) (includes harvesting of autograft[s])	Osteochondral allograft, knee - open
27415	Osteochondral allograft, knee - open	Osteochondral allograft, knee - open
21209	Osteoplasty, facial bones; reduction	Osteoplasty of facial bones
21208	Osteoplasty, facial bones; augmentation (autograft, allograft, or prosthetic implant)	Osteoplasty of facial bones
27468	Osteoplasty, femur; combined, lengthening and shortening with femoral segment transfer	Osteoplasty of lower extremity
27466	Osteoplasty, femur; lengthening	Osteoplasty of lower extremity
27465	Osteoplasty, femur; shortening (excluding 64876)	Osteoplasty of lower extremity
27140	Osteotomy and transfer of greater trochanter of femur (separate procedure)	Osteoplasty of lower extremity
25394	Osteoplasty, carpal bone, shortening	Osteoplasty of upper extremity
24420	Osteoplasty, humerus (eg, shortening or lengthening) (excluding 64876)	Osteoplasty of upper extremity
26568	Osteoplasty, lengthening, metacarpal or phalanx	Osteoplasty of upper extremity
25393	Osteoplasty, radius AND ulna; lengthening with autograft	Osteoplasty of upper extremity
25392	Osteoplasty, radius AND ulna; shortening (excluding 64876)	Osteoplasty of upper extremity
25391	Osteoplasty, radius OR ulna; lengthening with autograft	Osteoplasty of upper extremity
25390	Osteoplasty, radius OR ulna; shortening	Osteoplasty of upper extremity
23485	Osteotomy, clavicle, with or without internal fixation; with bone graft for nonunion or malunion (includes obtaining graft and/or necessary fixation)	Osteotomy of clavicle
23480	Osteotomy, clavicle, with or without internal fixation;	Osteotomy of clavicle
21206	Osteotomy, maxilla, segmental (eg, Wassmund or Schuchard)	Osteotomy of facial bones
21199	Osteotomy, mandible, segmental; with genioglossus advancement	Osteotomy of facial bones
21198	Osteotomy, mandible, segmental;	Osteotomy of facial bones
27454	Osteotomy, multiple, with realignment on intramedullary rod, femoral shaft (eg, Sofield type procedure)	Osteotomy of lower extremity
27450	Osteotomy, femur, shaft or supracondylar; with fixation	Osteotomy of lower extremity
27448	Osteotomy, femur, shaft or supracondylar; without fixation	Osteotomy of lower extremity
27165	Osteotomy, intertrochanteric or subtrochanteric including internal or external fixation and/or cast	Osteotomy of lower extremity
27161	Osteotomy, femoral neck (separate procedure)	Osteotomy of lower extremity
28312	Osteotomy, shortening, angular or rotational correction; other phalanges, any toe	Osteotomy of lower extremity
28310	Osteotomy, shortening, angular or rotational correction; proximal phalanx, first toe (separate procedure)	Osteotomy of lower extremity
28309	Osteotomy, with or without lengthening, shortening or angular correction, metatarsal; multiple (eg, Swanson type cavus foot procedure)	Osteotomy of lower extremity
28308	Osteotomy, with or without lengthening, shortening or angular correction, metatarsal; other than first metatarsal, each	Osteotomy of lower extremity
28307	Osteotomy, with or without lengthening, shortening or angular correction, metatarsal; first metatarsal with autograft (other than first toe)	Osteotomy of lower extremity
28306	Osteotomy, with or without lengthening, shortening or angular correction, metatarsal; first metatarsal	Osteotomy of lower extremity
28305	Osteotomy, tarsal bones, other than calcaneus or talus; with autograft (includes obtaining graft) (eg, Fowler type)	Osteotomy of lower extremity
28304	Osteotomy, tarsal bones, other than calcaneus or talus;	Osteotomy of lower extremity
28302	Osteotomy; talus	Osteotomy of lower extremity

Continued		
Code	Code description	Procedure type
28300	Osteotomy; calcaneus (eg, Dwyer or Chambers type procedure), with or without internal fixation	Osteotomy of lower extremity
27715	Osteoplasty, tibia and fibula, lengthening or shortening	Osteotomy of lower extremity
27712	Osteotomy; multiple, with realignment on intramedullary rod (eg, Sofield type procedure)	Osteotomy of lower extremity
27709	Osteotomy; tibia and fibula	Osteotomy of lower extremity
27707	Osteotomy; fibula	Osteotomy of lower extremity
27705	Osteotomy; tibia	Osteotomy of lower extremity
27457	Osteotomy, proximal tibia, including fibular excision or osteotomy (includes correction of genu varus [bowleg] or genu valgus [knock-knee]); after epiphyseal closure	Osteotomy of lower extremity
27455	Osteotomy, proximal tibia, including fibular excision or osteotomy (includes correction of genu varus [bowleg] or genu valgus [knock-knee]); before epiphyseal closure	Osteotomy of lower extremity
27158	Osteotomy, pelvis, bilateral (eg, congenital malformation)	Osteotomy of pelvis
27156	Osteotomy, iliac, acetabular or innominate bone; with femoral osteotomy and with open reduction of hip	Osteotomy of pelvis
27151	Osteotomy, iliac, acetabular or innominate bone; with femoral osteotomy	Osteotomy of pelvis
27147	Osteotomy, iliac, acetabular or innominate bone; with open reduction of hip	Osteotomy of pelvis
27146	Osteotomy, iliac, acetabular or innominate bone;	Osteotomy of pelvis
22224	Osteotomy of spine, including discectomy, anterior approach, single vertebral segment; lumbar	Osteotomy of spine
22222	Osteotomy of spine, including discectomy, anterior approach, single vertebral segment; thoracic	Osteotomy of spine
22220	Osteotomy of spine, including discectomy, anterior approach, single vertebral segment; cervical	Osteotomy of spine
22214	Osteotomy of spine, posterior or posterolateral approach, 1 vertebral segment; lumbar	Osteotomy of spine
22212	Osteotomy of spine, posterior or posterolateral approach, 1 vertebral segment; thoracic	Osteotomy of spine
22210	Osteotomy of spine, posterior or posterolateral approach, 1 vertebral segment; cervical	Osteotomy of spine
22207	Osteotomy of spine, posterior or posterolateral approach, 3 columns, 1 vertebral segment (eg, pedicle/vertebral body subtraction); lumbar	Osteotomy of spine
22206	Osteotomy of spine, posterior or posterolateral approach, 3 columns, 1 vertebral segment (eg, pedicle/vertebral body subtraction); thoracic	Osteotomy of spine
26567	Osteotomy; phalanx of finger, each	Osteotomy of upper extremity
26565	Osteotomy; metacarpal, each	Osteotomy of upper extremity
24410	Multiple osteotomies with realignment on intramedullary rod, humeral shaft (Sofield type procedure)	Osteotomy of upper extremity
24400	Osteotomy, humerus, with or without internal fixation	Osteotomy of upper extremity
25375	Multiple osteotomies, with realignment on intramedullary rod (Sofield type procedure); radius AND ulna	Osteotomy of upper extremity
25370	Multiple osteotomies, with realignment on intramedullary rod (Sofield type procedure); radius OR ulna	Osteotomy of upper extremity
25365	Osteotomy; radius AND ulna	Osteotomy of upper extremity
25360	Osteotomy; ulna	Osteotomy of upper extremity
25355	Osteotomy, radius; middle or proximal third	Osteotomy of upper extremity
25350	Osteotomy, radius; distal third	Osteotomy of upper extremity
61345	Other cranial decompression, posterior fossa	Other cranial decompression, posterior fossa
20926	Tissue grafts, other (eg, paratenon, fat, dermis)	Other tissue grafts
33478	Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection	Outflow tract augmentation (gusset), with or without commissurotomy or infundibular resection
58925	Ovarian cystectomy, unilateral or bilateral	Ovarian cystectomy
42225	Palatoplasty for cleft palate; attachment pharyngeal flap	Palatoplasty
42220	Palatoplasty for cleft palate; secondary lengthening procedure	Palatoplasty
42215	Palatoplasty for cleft palate; major revision	Palatoplasty
42210	Palatoplasty for cleft palate, with closure of alveolar ridge; with bone graft to alveolar ridge (includes obtaining graft)	Palatoplasty
42205	Palatoplasty for cleft palate, with closure of alveolar ridge; soft tissue only	Palatoplasty
42200	Palatoplasty for cleft palate, soft and/or hard palate only	Palatoplasty

Continued		
Code	Code description	Procedure type
42145	Palatopharyngoplasty (eg, uvulopalatopharyngoplasty, uvulopharyngoplasty)	Palatopharyngoplasty
48160	Pancreatectomy, total or subtotal, with autologous transplantation of pancreas or pancreatic islet cells	Pancreatectomy
48155	Pancreatectomy, total	Pancreatectomy
48154	Pancreatectomy, proximal subtotal with near-total duodenectomy, choledochenterostomy and duodenojejunostomy (pylorus-sparing, Whipple-type procedure); without pancreatojejunostomy	Pancreatectomy
48153	Pancreatectomy, proximal subtotal with near-total duodenectomy, choledochenterostomy and duodenojejunostomy (pylorus-sparing, Whipple-type procedure); with pancreatojejunostomy	Pancreatectomy
48152	Pancreatectomy, proximal subtotal with total duodenectomy, partial gastrectomy, choledochenterostomy and gastrojejunostomy (Whipple-type procedure); without pancreatojejunostomy	Pancreatectomy
48150	Pancreatectomy, proximal subtotal with total duodenectomy, partial gastrectomy, choledochenterostomy and gastrojejunostomy (Whipple-type procedure); with pancreatojejunostomy	Pancreatectomy
48146	Pancreatectomy, distal, near-total with preservation of duodenum (Child- type procedure)	Pancreatectomy
48145	Pancreatectomy, distal subtotal, with or without splenectomy; with pancreaticojejunostomy	Pancreatectomy
48140	Pancreatectomy, distal subtotal, with or without splenectomy; without pancreaticojejunostomy	Pancreatectomy
48548	Pancreaticojejunostomy, side-to-side anastomosis (Puestow-type operation)	Pancreatic cyst or pseudocyst repair
48545	Pancreatorrhaphy for injury	Pancreatic cyst or pseudocyst repair
48540	Internal anastomosis of pancreatic cyst to gastrointestinal tract; Roux-en-Y	Pancreatic cyst or pseudocyst repair
48520	Internal anastomosis of pancreatic cyst to gastrointestinal tract; direct	Pancreatic cyst or pseudocyst repair
48510	External drainage, pseudocyst of pancreas - open	Pancreatic cyst or pseudocyst repair
48500	Marsupialization of pancreatic cyst	Pancreatic cyst or pseudocyst repair
65815	Paracentesis of anterior chamber of eye (separate procedure); with removal of blood, with or without irrigation and/or air injection	Paracentesis of anterior chamber of eye
65810	Paracentesis of anterior chamber of eye (separate procedure); with removal of vitreous and/or dissection of anterior hyaloid membrane, with or without air injection	Paracentesis of anterior chamber of eye
60505	Parathyroidectomy or exploration of parathyroid(s); with mediastinal exploration, sternal split or transthoracic approach	Parathyroidectomy
60502	Parathyroidectomy or exploration of parathyroid(s); re-exploration	Parathyroidectomy
60500	Parathyroidectomy or exploration of parathyroid(s);	Parathyroidectomy
57423	Paravaginal defect repair (including repair of cystocele, if performed) - laparoscopic approach	Paravaginal defect repair - laparoscopic
57284	Paravaginal defect repair (including repair of cystocele, if performed); open abdominal approach	Paravaginal defect repair - open
57285	Paravaginal defect repair (including repair of cystocele, if performed); vaginal approach	Paravaginal defect repair - open
42510	Parotid duct diversion, bilateral (Wilke type procedure); with ligation of both submandibular (Wharton's) ducts	Parotid duct diversion
42509	Parotid duct diversion, bilateral (Wilke type procedure); with excision of both submandibular glands	Parotid duct diversion
42508	Parotid duct diversion, bilateral (Wilke type procedure); with excision of 1 submandibular gland	Parotid duct diversion
42507	Parotid duct diversion, bilateral (Wilke type procedure);	Parotid duct diversion
27350	Patellectomy or hemipatellectomy	Patellectomy or hemipatellectomy
58240	Pelvic exenteration for gynecologic malignancy, with total abdominal hysterectomy or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), with removal of bladder and ureteral transplantations, and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof	Pelvic exenteration
51597	Pelvic exenteration, complete, for vesical, prostatic or urethral malignancy, with removal of bladder and ureteral transplantations, with or without hysterectomy and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof	Pelvic exenteration
45126	Pelvic exenteration for colorectal malignancy, with proctectomy (with or without colostomy), with removal of bladder and ureteral transplantations, and/or hysterectomy, or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), or any combination thereof	Pelvic exenteration

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Code	Code description	Procedure type
54417	Removal and replacement of non-inflatable (semi-rigid) or inflatable (self-contained) penile prosthesis through an infected field at the same operative session, including irrigation and debridement of infected tissue	Penile prostheses
54416	Removal and replacement of non-inflatable (semi-rigid) or inflatable (self-contained) penile prosthesis at the same operative session	Penile prostheses
54415	Removal of non-inflatable (semi-rigid) or inflatable (self-contained) penile prosthesis, without replacement of prosthesis	Penile prostheses
54411	Removal and replacement of all components of a multi-component inflatable penile prosthesis through an infected field at the same operative session, including irrigation and debridement of infected tissue	Penile prostheses
54410	Removal and replacement of all component(s) of a multi-component, inflatable penile prosthesis at the same operative session	Penile prostheses
54408	Repair of component(s) of a multi-component, inflatable penile prosthesis	Penile prostheses
54406	Removal of all components of a multi-component, inflatable penile prosthesis without replacement of prosthesis	Penile prostheses
54405	Insertion of multi-component, inflatable penile prosthesis, including placement of pump, cylinders, and reservoir	Penile prostheses
54401	Insertion of penile prosthesis; inflatable (self-contained)	Penile prostheses
54400	Insertion of penile prosthesis; non-inflatable (semi-rigid)	Penile prostheses
37790	Penile venous occlusive procedure	Penile reconstruction
37788	Penile revascularization, artery, with or without vein graft	Penile reconstruction
33019	Pericardial drainage with insertion of indwelling catheter, percutaneous, including CT guidance	Pericardial drainage
33018	Pericardial drainage with insertion of indwelling catheter, percutaneous, including fluoroscopy and/or ultrasound guidance, when performed; birth through 5 years of age or any age with congenital cardiac anomaly	Pericardial drainage
33017	Pericardial drainage with insertion of indwelling catheter, percutaneous, including fluoroscopy and/or ultrasound guidance, when performed; 6 years and older without congenital cardiac anomaly	Pericardial drainage
93590	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, mitral valve	Percutaneous coronary procedures
93583	Percutaneous transcatheter septal reduction therapy (eg, alcohol septal ablation) including temporary pacemaker insertion when performed	Percutaneous coronary procedures
93582	Percutaneous transcatheter closure of patent ductus arteriosus	Percutaneous coronary procedures
93581	Percutaneous transcatheter closure of a congenital ventricular septal defect with implant	Percutaneous coronary procedures
93580	Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant	Percutaneous coronary procedures
92997	Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel	Percutaneous coronary procedures
92990	Percutaneous balloon valvuloplasty; pulmonary valve	Percutaneous coronary procedures
92987	Percutaneous balloon valvuloplasty; mitral valve	Percutaneous coronary procedures
92986	Percutaneous balloon valvuloplasty; aortic valve	Percutaneous coronary procedures
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	Percutaneous coronary procedures
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	Percutaneous coronary procedures
93591	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, aortic valve	Percutaneous coronary procedures
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	Percutaneous coronary procedures
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	Percutaneous coronary procedures
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	Percutaneous coronary procedures
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch	Percutaneous coronary procedures
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	Percutaneous coronary procedures

Continued		
Code	Code description	Procedure type
33340	Percutaneous transcatheter closure of the left atrial appendage with endocardial implant, including fluoroscopy, transseptal puncture, catheter placement(s), left atrial angiography, left atrial appendage angiography, when performed, and radiological supervision and interpretation	Percutaneous coronary procedures
57289	Pereyra procedure, including anterior colporrhaphy	Pereyra procedure, including anterior colporrhaphy
33031	Pericardiectomy, subtotal or complete; with cardiopulmonary bypass	Pericardiectomy
33030	Pericardiectomy, subtotal or complete; without cardiopulmonary bypass	Pericardiectomy
33020	Pericardiectomy for removal of clot or foreign body (primary procedure)	Pericardiectomy for removal of clot or foreign body
56810	Perineoplasty, repair of perineum, nonobstetrical (separate procedure)	Perineoplasty, repair of perineum, nonobstetrical
21268	Orbital repositioning, periorbital osteotomies, unilateral, with bone grafts; combined intra- and extracranial approach	Periorbital osteotomies
21267	Orbital repositioning, periorbital osteotomies, unilateral, with bone grafts; extracranial approach	Periorbital osteotomies
21263	Periorbital osteotomies for orbital hypertelorism, with bone grafts; with forehead advancement	Periorbital osteotomies
21261	Periorbital osteotomies for orbital hypertelorism, with bone grafts; combined intra- and extracranial approach	Periorbital osteotomies
21260	Periorbital osteotomies for orbital hypertelorism, with bone grafts; extracranial approach	Periorbital osteotomies
19371	Periprosthetic capsulectomy, breast	Periprosthetic capsulotomy, breast
19370	Open periprosthetic capsulotomy, breast	Periprosthetic capsulotomy, breast
53452	Periurethral transperineal adjustable balloon continence device; unilateral insertion, including cystourethroscopy and imaging guidance	Periurethral transperineal adjustable balloon continence device
53451	Periurethral transperineal adjustable balloon continence device; bilateral insertion, including cystourethroscopy and imaging guidance	Periurethral transperineal adjustable balloon continence device
42953	Pharyngoesophageal repair	Pharyngoesophageal repair
42950	Pharyngoplasty (plastic or reconstructive operation on pharynx)	Pharyngoplasty
42955	Pharyngostomy (fistulization of pharynx, external for feeding)	Pharyngostomy
47801	Placement of choledochal stent	Placement of choledochal stent
48000	Placement of drains, peripancreatic, for acute pancreatitis;	Placement of drains, peripancreatic, for acute pancreatitis
48001	Placement of drains, peripancreatic, for acute pancreatitis; with cholecystostomy, gastrostomy, and jejunostomy	Placement of drains, peripancreatic, for acute pancreatitis
36680	Placement of needle for intraosseous infusion	Placement of needle for intraosseous infusion
44300	Placement, enterostomy or cecostomy, tube open (eg, for feeding or decompression) (separate procedure)	Placement of enterostomy or cecostomy, tube open
43773	Laparoscopy, surgical, gastric restrictive procedure; removal and replacement of adjustable gastric restrictive device component only	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic
43772	Laparoscopy, surgical, gastric restrictive procedure; removal of adjustable gastric restrictive device component only	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic
43771	Laparoscopy, surgical, gastric restrictive procedure; revision of adjustable gastric restrictive device component only	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic
43770	Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg, gastric band and subcutaneous port components)	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic
43774	Laparoscopy, surgical, gastric restrictive procedure; removal of adjustable gastric restrictive device and subcutaneous port components	Placement, removal, revision and/or replacement of adjustable gastric restrictive device - laparoscopic
54440	Plastic operation of penis for injury	Plastic operation of penis for injury
54304	Plastic operation on penis for correction of chordee or for first stage hypospadias repair with or without transplantation of prepuce and/or skin flaps	Plastic operation of penis to correct chordee or angulation

Continued		
Code	Code description	Procedure type
54300	Plastic operation of penis for straightening of chordee (eg, hypospadias), with or without mobilization of urethra	Plastic operation of penis to correct chordee or angulation
54360	Plastic operation on penis to correct angulation	Plastic operation of penis to correct chordee or angulation
54390	Plastic operation on penis for epispadias distal to external sphincter; with exstrophy of bladder	Plastic operation on penis for epispadias
54385	Plastic operation on penis for epispadias distal to external sphincter; with incontinence	Plastic operation on penis for epispadias
54380	Plastic operation on penis for epispadias distal to external sphincter;	Plastic operation on penis for epispadias
57220	Plastic operation on urethral sphincter, vaginal approach (eg, Kelly urethral plication)	Plastic operation on urethral sphincter, vaginal approach
68700	Plastic repair of canaliculi	Plastic repair of canaliculi
56800	Plastic repair of introitus	Plastic repair of introitus
42505	Plastic repair of salivary duct, sialodochoplasty; secondary or complicated	Plastic repair of salivary duct, sialodochoplasty
42500	Plastic repair of salivary duct, sialodochoplasty; primary or simple	Plastic repair of salivary duct, sialodochoplasty
57230	Plastic repair of urethrocele	Plastic repair of urethrocele
32215	Pleural scarification for repeat pneumothorax	Pleurodesis
32940	Pneumonolysis, extraperiosteal, including filling or packing procedures	Pneumonolysis, extraperiosteal, including filling or packing procedures
32201	Pneumonostomy; with percutaneous drainage of abscess or cyst	Pneumonostomy
32200	Pneumonostomy, with open drainage of abscess or cyst	Pneumonostomy
26550	Pollicization of a digit	Pollicization of a digit
47701	Portoenterostomy (eg, Kasai procedure)	Portoenterostomy
49013	Preperitoneal pelvic packing for hemorrhage associated with pelvic trauma, including local exploration	Preperitoneal pelvic packing for hemorrhage
45400	Laparoscopy, surgical; proctopexy (for prolapse)	Proctopexy - laparoscopic
45402	Laparoscopy, surgical; proctopexy (for prolapse), with sigmoid resection	Proctopexy - laparoscopic
45540	Proctopexy (eg, for prolapse); abdominal approach	Proctopexy - open
45550	Proctopexy (eg, for prolapse); with sigmoid resection, abdominal approach	Proctopexy - open
45541	Proctopexy (eg, for prolapse); perineal approach	Proctopexy - open
45505	Proctoplasty; for prolapse of mucous membrane	Proctoplasty
45500	Proctoplasty; for stenosis	Proctoplasty
23490	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate; clavicle	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, clavicle
27495	Prophylactic treatment (nailing, pinning, plating, or wiring) with or without methylmethacrylate, femur	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity
27187	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate, femoral neck and proximal femur	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity
27745	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate, tibia	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, lower extremity
25492	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate; radius AND ulna	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity
25491	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate; ulna	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity
25490	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate; radius	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity
24498	Prophylactic treatment (nailing, pinning, plating or wiring), with or without methylmethacrylate, humeral shaft	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity

Continued		
Code	Code description	Procedure type
23491	Prophylactic treatment (nailing, pinning, plating or wiring) with or without methylmethacrylate; proximal humerus	Prophylactic treatment (nailing, pinning, plating or wiring) of bone, upper extremity
55866	Laparoscopy, surgical prostatectomy, retropubic radical, including nerve sparing, includes robotic assistance, when performed	Prostatectomy - laparoscopic
55815	Prostatectomy, perineal radical; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric and obturator nodes	Prostatectomy - open
55812	Prostatectomy, perineal radical; with lymph node biopsy(s) (limited pelvic lymphadenectomy)	Prostatectomy - open
55831	Prostatectomy (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy); retropubic, subtotal	Prostatectomy - open
55821	Prostatectomy (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy); suprapubic, subtotal, 1 or 2 stages	Prostatectomy - open
55810	Prostatectomy, perineal radical;	Prostatectomy - open
55840	Prostatectomy, retropubic radical, with or without nerve sparing;	Prostatectomy - open
55845	Prostatectomy, retropubic radical, with or without nerve sparing; with bilateral pelvic lymphadenectomy, including external iliac, hypogastric, and obturator nodes	Prostatectomy - open
55842	Prostatectomy, retropubic radical, with or without nerve sparing; with lymph node biopsy(s) (limited pelvic lymphadenectomy)	Prostatectomy - open
55801	Prostatectomy, perineal, subtotal (including control of postoperative bleeding, vasectomy, meatotomy, urethral calibration and/or dilation, and internal urethrotomy)	Prostatectomy - open
31040	Pterygomaxillary fossa surgery, any approach	Pterygomaxillary fossa surgery
67909	Reduction of overcorrection of ptosis	Ptosis correction
33915	Pulmonary artery embolectomy; without cardiopulmonary bypass	Pulmonary artery embolectomy
33910	Pulmonary artery embolectomy; with cardiopulmonary bypass	Pulmonary artery embolectomy
33606	Anastomosis of pulmonary artery to aorta (Damas-Kaye-Stansel procedure)	Pulmonary artery to aorta bypass
33916	Pulmonary endarterectomy, with or without embolectomy, with cardiopulmonary bypass	Pulmonary endarterectomy
33475	Replacement, pulmonary valve	Pulmonary valve repair/replacement - open
33474	Valvotomy, pulmonary valve - open heart; with cardiopulmonary bypass	Pulmonary valve repair/replacement - open
33472	Valvotomy, pulmonary valve - open heart; with inflow occlusion	Pulmonary valve repair/replacement - open
33471	Valvotomy, pulmonary valve, closed heart; via pulmonary artery	Pulmonary valve repair/replacement - open
33470	Valvotomy, pulmonary valve, closed heart; transventricular	Pulmonary valve repair/replacement - open
50405	Pyeloplasty (Foley Y-pyeloplasty), plastic operation on renal pelvis, with or without plastic operation on ureter, nephropexy, nephrostomy, pyelostomy, or ureteral splinting; complicated (congenital kidney abnormality, secondary pyeloplasty, solitary kidney, calycooplasty)	Pyeloplasty
50400	Pyeloplasty (Foley Y-pyeloplasty), plastic operation on renal pelvis, with or without plastic operation on ureter, nephropexy, nephrostomy, pyelostomy, or ureteral splinting; simple	Pyeloplasty
50135	Pyelotomy; complicated (eg, secondary operation, congenital kidney abnormality)	Pyelotomy
50130	Pyelotomy; with removal of calculus (pyelolithotomy, pelviolithotomy, including coagulum pyelolithotomy)	Pyelotomy
50125	Pyelotomy; with drainage, pyelostomy	Pyelotomy
50120	Pyelotomy; with exploration	Pyelotomy
43520	Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)	Pyloromyotomy, cutting of pyloric muscle (Fredet-Ramstedt type operation)
43800	Pyloroplasty	Pyloroplasty
27430	Quadricepsplasty (eg, Bennett or Thompson type)	Quadricepsplasty (eg, Bennett or Thompson type)
65771	Radial keratotomy	Radial keratotomy
25230	Radial styloidectomy (separate procedure)	Radial styloidectomy
25116	Radical excision of bursa, synovia of wrist, or forearm tendon sheaths (eg, tenosynovitis, fungus, Tbc, or other granulomas, rheumatoid arthritis); extensors, with or without transposition of dorsal retinaculum	Radical excision of bursa, synovia of wrist, or forearm
25115	Radical excision of bursa, synovia of wrist, or forearm tendon sheaths (eg, tenosynovitis, fungus, Tbc, or other granulomas, rheumatoid arthritis); flexors	Radical excision of bursa, synovia of wrist, or forearm
69155	Radical excision external auditory canal lesion; with neck dissection	Radical excision of external auditory canal lesion

Continued		
Code	Code description	Procedure type
69150	Radical excision external auditory canal lesion; without neck dissection	Radical excision of external auditory canal lesion
24149	Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release (separate procedure)	Radical resection of capsule, soft tissue, and heterotopic bone, elbow, with contracture release
42845	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone; closure with other flap	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone
42844	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone; closure with local flap (eg, tongue, buccal)	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone
42842	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone; without closure	Radical resection of tonsil, tonsillar pillars, and/or retromolar trigone
27646	Radical resection of tumor; fibula	Radical resection of tumor, bone
27647	Radical resection of tumor; talus or calcaneus	Radical resection of tumor, bone
27645	Radical resection of tumor; tibia	Radical resection of tumor, bone
22905	Radical resection of tumor (eg, sarcoma), soft tissue of abdominal wall; 5 cm or greater	Radical resection of tumor, soft tissue
22904	Radical resection of tumor (eg, sarcoma), soft tissue of abdominal wall; less than 5 cm	Radical resection of tumor, soft tissue
21936	Radical resection of tumor (eg, sarcoma), soft tissue of back or flank; 5 cm or greater	Radical resection of tumor, soft tissue
21935	Radical resection of tumor (eg, sarcoma), soft tissue of back or flank; less than 5 cm	Radical resection of tumor, soft tissue
21016	Radical resection of tumor (eg, sarcoma), soft tissue of face or scalp; 2 cm or greater	Radical resection of tumor, soft tissue
21015	Radical resection of tumor (eg, sarcoma), soft tissue of face or scalp; less than 2 cm	Radical resection of tumor, soft tissue
28175	Radical resection of tumor; phalanx of toe	Radical resection of tumor, soft tissue
28173	Radical resection of tumor; metatarsal	Radical resection of tumor, soft tissue
28171	Radical resection of tumor; tarsal (except talus or calcaneus)	Radical resection of tumor, soft tissue
27616	Radical resection of tumor (eg, sarcoma), soft tissue of leg or ankle area; 5 cm or greater	Radical resection of tumor, soft tissue
27615	Radical resection of tumor (eg, sarcoma), soft tissue of leg or ankle area; less than 5 cm	Radical resection of tumor, soft tissue
27365	Radical resection of tumor, femur or knee	Radical resection of tumor, soft tissue
27364	Radical resection of tumor (eg, sarcoma), soft tissue of thigh or knee area; 5 cm or greater	Radical resection of tumor, soft tissue
27329	Radical resection of tumor (eg, sarcoma), soft tissue of thigh or knee area; less than 5 cm	Radical resection of tumor, soft tissue
21558	Radical resection of tumor (eg, sarcoma), soft tissue of neck or anterior thorax; 5 cm or greater	Radical resection of tumor, soft tissue
21557	Radical resection of tumor (eg, sarcoma), soft tissue of neck or anterior thorax; less than 5 cm	Radical resection of tumor, soft tissue
27059	Radical resection of tumor (eg, sarcoma), soft tissue of pelvis and hip area; 5 cm or greater	Radical resection of tumor, soft tissue
27049	Radical resection of tumor (eg, sarcoma), soft tissue of pelvis and hip area; less than 5 cm	Radical resection of tumor, soft tissue
23078	Radical resection of tumor (eg, sarcoma), soft tissue of shoulder area; 5 cm or greater	Radical resection of tumor, soft tissue
23077	Radical resection of tumor (eg, sarcoma), soft tissue of shoulder area; less than 5 cm	Radical resection of tumor, soft tissue
28047	Radical resection of tumor (eg, sarcoma), soft tissue of foot or toe; 3 cm or greater	Radical resection of tumor, soft tissue
28046	Radical resection of tumor (eg, sarcoma), soft tissue of foot or toe; less than 3 cm	Radical resection of tumor, soft tissue
26118	Radical resection of tumor (eg, sarcoma), soft tissue of hand or finger; 3 cm or greater	Radical resection of tumor, soft tissue
26117	Radical resection of tumor (eg, sarcoma), soft tissue of hand or finger; less than 3 cm	Radical resection of tumor, soft tissue
25078	Radical resection of tumor (eg, sarcoma), soft tissue of forearm and/or wrist area; 3 cm or greater	Radical resection of tumor, soft tissue
25077	Radical resection of tumor (eg, sarcoma), soft tissue of forearm and/or wrist area; less than 3 cm	Radical resection of tumor, soft tissue
24079	Radical resection of tumor (eg, sarcoma), soft tissue of upper arm or elbow area; 5 cm or greater	Radical resection of tumor, soft tissue
24077	Radical resection of tumor (eg, sarcoma), soft tissue of upper arm or elbow area; less than 5 cm	Radical resection of tumor, soft tissue
26590	Repair macrodactylia, each digit	Reconstruction of hand, congenital macrodactyly
33622	Reconstruction of complex cardiac anomaly (eg, single ventricle or hypoplastic left heart) with palliation of single ventricle with aortic outflow obstruction and aortic arch hypoplasia, creation of cavopulmonary anastomosis, and removal of right and left pulmonary bands (eg, hybrid approach stage 2, Norwood, bidirectional Glenn, pulmonary artery debanding)	Reconstruction of complex cardiac anomaly (eg, single ventricle or hypoplastic left heart)
27424	Reconstruction of dislocating patella; with patellectomy	Reconstruction of dislocating patella

Continued		
Code	Code description	Procedure type
27422	Reconstruction of dislocating patella; with extensor realignment and/or muscle advancement or release (eg, Campbell, Goldwaite type procedure)	Reconstruction of dislocating patella
27420	Reconstruction of dislocating patella; (eg, Hauser type procedure)	Reconstruction of dislocating patella
69320	Reconstruction external auditory canal for congenital atresia, single stage	Reconstruction of external auditory canal
69310	Reconstruction of external auditory canal (meatoplasty) (eg, for stenosis due to injury, infection) (separate procedure)	Reconstruction of external auditory canal
67975	Reconstruction of eyelid, full thickness by transfer of tarsoconjunctival flap from opposing eyelid; second stage	Reconstruction of eyelid
67974	Reconstruction of eyelid, full thickness by transfer of tarsoconjunctival flap from opposing eyelid; total eyelid, upper, 1 stage or first stage	Reconstruction of eyelid
67973	Reconstruction of eyelid, full thickness by transfer of tarsoconjunctival flap from opposing eyelid; total eyelid, lower, 1 stage or first stage	Reconstruction of eyelid
67971	Reconstruction of eyelid, full thickness by transfer of tarsoconjunctival flap from opposing eyelid; up to 2/3 of eyelid, 1 stage or first stage	Reconstruction of eyelid
27472	Repair, nonunion or malunion, femur, distal to head and neck; with iliac or other autogenous bone graft (includes obtaining graft)	Reconstruction of nonunion or malunion, lower extremity
27470	Repair, nonunion or malunion, femur, distal to head and neck; without graft (eg, compression technique)	Reconstruction of nonunion or malunion, lower extremity
27726	Repair of fibula nonunion and/or malunion with internal fixation	Reconstruction of nonunion or malunion, lower extremity
27725	Repair of nonunion or malunion, tibia; by synostosis, with fibula, any method	Reconstruction of nonunion or malunion, lower extremity
27724	Repair of nonunion or malunion, tibia; with iliac or other autograft (includes obtaining graft)	Reconstruction of nonunion or malunion, lower extremity
27722	Repair of nonunion or malunion, tibia; with sliding graft	Reconstruction of nonunion or malunion, lower extremity
27720	Repair of nonunion or malunion, tibia; without graft, (eg, compression technique)	Reconstruction of nonunion or malunion, lower extremity
26546	Repair non-union, metacarpal or phalanx (includes obtaining bone graft with or without external or internal fixation)	Reconstruction of nonunion or malunion, upper extremity
24435	Repair of nonunion or malunion, humerus; with iliac or other autograft (includes obtaining graft)	Reconstruction of nonunion or malunion, upper extremity
24430	Repair of nonunion or malunion, humerus; without graft (eg, compression technique)	Reconstruction of nonunion or malunion, upper extremity
25420	Repair of nonunion or malunion, radius AND ulna; with autograft (includes obtaining graft)	Reconstruction of nonunion or malunion, upper extremity
25415	Repair of nonunion or malunion, radius AND ulna; without graft (eg, compression technique)	Reconstruction of nonunion or malunion, upper extremity
25405	Repair of nonunion or malunion, radius OR ulna; with autograft (includes obtaining graft)	Reconstruction of nonunion or malunion, upper extremity
25400	Repair of nonunion or malunion, radius OR ulna; without graft (eg, compression technique)	Reconstruction of nonunion or malunion, upper extremity
25440	Repair of nonunion, scaphoid carpal (navicular) bone, with or without radial styloidectomy (includes obtaining graft and necessary fixation)	Reconstruction of nonunion or malunion, upper extremity
25431	Repair of nonunion of carpal bone (excluding carpal scaphoid (navicular)) (includes obtaining graft and necessary fixation), each bone	Reconstruction of nonunion or malunion, upper extremity
26502	Reconstruction of tendon pulley, each tendon; with tendon or fascial graft (includes obtaining graft) (separate procedure)	Reconstruction of tendon pulley; finger
26500	Reconstruction of tendon pulley, each tendon; with local tissues (separate procedure)	Reconstruction of tendon pulley; finger
34502	Reconstruction of vena cava, any method	Reconstruction of vena cava, any method
28360	Reconstruction, cleft foot	Reconstruction of cleft foot
26587	Reconstruction of polydactylous digit, soft tissue and bone	Reconstruction of congenital hand polydactyly
39545	Imbrication of diaphragm for eventration, transthoracic or transabdominal, paralytic or nonparalytic	Reconstruction of diaphragm
21255	Reconstruction of zygomatic arch and glenoid fossa with bone and cartilage (includes obtaining autografts)	Reconstruction of face

Continued		
Code	Code description	Procedure type
21188	Reconstruction midface, osteotomies (other than LeFort type) and bone grafts (includes obtaining autografts)	Reconstruction of face
21184	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting greater than 80 sq cm	Reconstruction of face
21182	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting less than 40 sq cm	Reconstruction of face
21181	Reconstruction by contouring of benign tumor of cranial bones (eg, fibrous dysplasia), extracranial	Reconstruction of face
21180	Reconstruction, entire or majority of forehead and/or supraorbital rims; with autograft (includes obtaining grafts)	Reconstruction of face
21179	Reconstruction, entire or majority of forehead and/or supraorbital rims; with grafts (allograft or prosthetic material)	Reconstruction of face
21175	Reconstruction, bifrontal, superior-lateral orbital rims and lower forehead, advancement or alteration (eg, plagiocephaly, trigonocephaly, brachycephaly), with or without grafts (includes obtaining autografts)	Reconstruction of face
21172	Reconstruction superior-lateral orbital rim and lower forehead, advancement or alteration, with or without grafts (includes obtaining autografts)	Reconstruction of face
21160	Reconstruction midface, LeFort III (extra and intracranial) with forehead advancement (eg, mono bloc), requiring bone grafts (includes obtaining autografts); with LeFort I	Reconstruction of face
21183	Reconstruction of orbital walls, rims, forehead, nasoethmoid complex following intra- and extracranial excision of benign tumor of cranial bone (eg, fibrous dysplasia), with multiple autografts (includes obtaining grafts); total area of bone grafting greater than 40 sq cm but less than 80 sq cm	Reconstruction of face
21159	Reconstruction midface, LeFort III (extra and intracranial) with forehead advancement (eg, mono bloc), requiring bone grafts (includes obtaining autografts); without LeFort I	Reconstruction of face
21155	Reconstruction midface, LeFort III (extracranial), any type, requiring bone grafts (includes obtaining autografts); with LeFort I	Reconstruction of face
21256	Reconstruction of orbit with osteotomies (extracranial) and with bone grafts (includes obtaining autografts) (eg, micro-ophthalmia)	Reconstruction of face
21154	Reconstruction midface, LeFort III (extracranial), any type, requiring bone grafts (includes obtaining autografts); without LeFort I	Reconstruction of face
21151	Reconstruction midface, LeFort II; any direction, requiring bone grafts (includes obtaining autografts)	Reconstruction of face
21150	Reconstruction midface, LeFort II; anterior intrusion (eg, Treacher-Collins Syndrome)	Reconstruction of face
21147	Reconstruction midface, LeFort I; 3 or more pieces, segment movement in any direction, requiring bone grafts (includes obtaining autografts) (eg, ungrafted bilateral alveolar cleft or multiple osteotomies)	Reconstruction of face
21146	Reconstruction midface, LeFort I; 2 pieces, segment movement in any direction, requiring bone grafts (includes obtaining autografts) (eg, ungrafted unilateral alveolar cleft)	Reconstruction of face
21145	Reconstruction midface, LeFort I; single piece, segment movement in any direction, requiring bone grafts (includes obtaining autografts)	Reconstruction of face
21143	Reconstruction midface, LeFort I; 3 or more pieces, segment movement in any direction, without bone graft	Reconstruction of face
21142	Reconstruction midface, LeFort I; 2 pieces, segment movement in any direction, without bone graft	Reconstruction of face
21141	Reconstruction midface, LeFort I; single piece, segment movement in any direction (eg, for Long Face Syndrome), without bone graft	Reconstruction of face
21139	Reduction forehead; contouring and setback of anterior frontal sinus wall	Reconstruction of face
21138	Reduction forehead; contouring and application of prosthetic material or bone graft (includes obtaining autograft)	Reconstruction of face
21137	Reduction forehead; contouring only	Reconstruction of face
11762	Reconstruction of nail bed with graft	Reconstruction of fingertip
28446	Open osteochondral autograft, talus (includes obtaining graft[s])	Reconstruction of foot
28286	Correction, cock-up fifth toe, with plastic skin closure (eg, Ruiz-Mora type procedure)	Reconstruction of foot
28238	Reconstruction (advancement), posterior tibial tendon with excision of accessory tarsal navicular bone (eg, Kidner type procedure)	Reconstruction of foot

Continued		
Code	Code description	Procedure type
26508	Release of thenar muscle(s) (eg, thumb contracture)	Reconstruction of hand contracture release
26548	Repair and reconstruction, finger, volar plate, interphalangeal joint	Reconstruction of hand interphalangeal joint
21196	Reconstruction of mandibular rami and/or body, sagittal split; with internal rigid fixation	Reconstruction of mandible or maxilla
21195	Reconstruction of mandibular rami and/or body, sagittal split; without internal rigid fixation	Reconstruction of mandible or maxilla
21194	Reconstruction of mandibular rami, horizontal, vertical, C, or L osteotomy; with bone graft (includes obtaining graft)	Reconstruction of mandible or maxilla
21193	Reconstruction of mandibular rami, horizontal, vertical, C, or L osteotomy; without bone graft	Reconstruction of mandible or maxilla
21249	Reconstruction of mandible or maxilla, endosteal implant (eg, blade, cylinder); complete	Reconstruction of mandible or maxilla
21248	Reconstruction of mandible or maxilla, endosteal implant (eg, blade, cylinder); partial	Reconstruction of mandible or maxilla
21247	Reconstruction of mandibular condyle with bone and cartilage autografts (includes obtaining grafts) (eg, for hemifacial microsomia)	Reconstruction of mandible or maxilla
21246	Reconstruction of mandible or maxilla, subperiosteal implant; complete	Reconstruction of mandible or maxilla
21245	Reconstruction of mandible or maxilla, subperiosteal implant; partial	Reconstruction of mandible or maxilla
21244	Reconstruction of mandible, extraoral, with transosteal bone plate (eg, mandibular staple bone plate)	Reconstruction of mandible or maxilla
47800	Reconstruction, plastic, of extrahepatic biliary ducts with end-to-end anastomosis	Reconstruction of extrahepatic biliary ducts with end-to-end anastomosis
23420	Reconstruction of complete shoulder (rotator cuff avulsion, chronic (includes acromioplasty)	Reconstruction of shoulder
28313	Reconstruction, angular deformity of toe, soft tissue procedures only (eg, overlapping second toe, fifth toe, curly toes)	Reconstruction of toe
28344	Reconstruction, toe(s); polydactyly	Reconstruction of toe
28341	Reconstruction, toe, macrodactyly; requiring bone resection	Reconstruction of toe
28340	Reconstruction, toe, macrodactyly; soft tissue resection	Reconstruction of toe
28345	Reconstruction, toe(s); syndactyly, with or without skin graft(s), each web	Reconstruction of toe
25337	Reconstruction for stabilization of unstable distal ulna or distal radioulnar joint, secondary by soft tissue stabilization (eg, tendon transfer, tendon graft or weave, or tenodesis) with or without open reduction of distal radioulnar joint	Reconstruction of wrist
21743	Reconstructive repair of pectus excavatum or carinatum; minimally invasive approach (Nuss procedure), with thoracoscopy	Reconstructive repair of pectus excavatum or carinatum
21742	Reconstructive repair of pectus excavatum or carinatum; minimally invasive approach (Nuss procedure), without thoracoscopy	Reconstructive repair of pectus excavatum or carinatum
21740	Reconstructive repair of pectus excavatum or carinatum; open	Reconstructive repair of pectus excavatum or carinatum
21296	Reduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); intraoral approach	Reduction of masseter muscle and bone
21295	Reduction of masseter muscle and bone (eg, for treatment of benign masseteric hypertrophy); extraoral approach	Reduction of masseter muscle and bone
54600	Reduction of torsion of testis, surgical, with or without fixation of contralateral testis	Reduction of torsion of testis
49014	Re-exploration of pelvic wound with removal of preperitoneal pelvic packing, including repacking, when performed	Re-exploration of pelvic wound with removal of preperitoneal pelvic packing
33788	Reimplantation of an anomalous pulmonary artery	Reimplantation of an anomalous pulmonary artery
65155	Reinsertion of ocular implant; with use of foreign material for reinforcement and/or attachment of muscles to implant	Reinsertion of ocular implant
65150	Reinsertion of ocular implant; with or without conjunctival graft	Reinsertion of ocular implant
22849	Reinsertion of spinal fixation device	Reinsertion of spinal fixation device
67115	Release of encircling material (posterior segment)	Release of encircling material, posterior segment
67343	Release of extensive scar tissue without detaching extraocular muscle (separate procedure)	Release of extensive scar tissue without detaching extraocular muscle (separate procedure)
27097	Release or recession, hamstring, proximal	Release or recession, hamstring, proximal
26593	Release, intrinsic muscles of hand, each muscle	Release of intrinsic muscles of hand
26416	Removal of synthetic rod and insertion of extensor tendon graft (includes obtaining graft), hand or finger, each rod	Removal of synthetic rod and insertion of tendon graft in hand or finger

Continued		
Code	Code description	Procedure type
26392	Removal of synthetic rod and insertion of flexor tendon graft, hand or finger (includes obtaining graft), each rod	Removal of synthetic rod and insertion of tendon graft in hand or finger
53448	Removal and replacement of inflatable urethral/bladder neck sphincter including pump, reservoir, and cuff through an infected field at the same operative session including irrigation and debridement of infected tissue	Removal and/or replacement of inflatable urethral/bladder neck sphincter
53447	Removal and replacement of inflatable urethral/bladder neck sphincter including pump, reservoir, and cuff at the same operative session	Removal and/or replacement of inflatable urethral/bladder neck sphincter
53446	Removal of inflatable urethral/bladder neck sphincter, including pump, reservoir, and cuff	Removal and/or replacement of inflatable urethral/bladder neck sphincter
27704	Removal of ankle implant	Removal of ankle implant
65930	Removal of blood clot, anterior segment of eye	Removal of blood clot, anterior segment of eye
63746	Removal of entire lumbosubarachnoid shunt system without replacement	Removal of entire lumbosubarachnoid shunt system without replacement
65900	Removal of epithelial downgrowth, anterior chamber of eye	Removal of epithelial downgrowth, anterior chamber of eye
43285	Removal of esophageal sphincter augmentation device	Removal of esophageal sphincter augmentation device
54115	Removal foreign body from deep penile tissue (eg, plastic implant)	Removal of foreign body from deep penile tissue (eg, plastic implant)
65265	Removal of foreign body, intraocular; from posterior segment, nonmagnetic extraction	Removal of foreign body, intraocular
65260	Removal of foreign body, intraocular; from posterior segment, magnetic extraction, anterior or posterior route	Removal of foreign body, intraocular
65235	Removal of foreign body, intraocular; from anterior chamber of eye or lens	Removal of foreign body, intraocular
23333	Removal of foreign body, shoulder; deep (subfascial or intramuscular)	Removal of foreign body, shoulder
23332	Removal of foreign body, shoulder; complicated (eg, total shoulder)	Removal of foreign body, shoulder
23331	Removal of foreign body, shoulder; deep (eg, Neer hemiarthroplasty removal)	Removal of foreign body, shoulder
27091	Removal of hip prosthesis; complicated, including total hip prosthesis, methylmethacrylate with or without insertion of spacer	Removal of hip prosthesis
27090	Removal of hip prosthesis; (separate procedure)	Removal of hip prosthesis
64584	Removal of hypoglossal nerve neurostimulator array, pulse generator, and distal respiratory sensor electrode or electrode array	Removal of hypoglossal nerve neurostimulator array, pulse generator, and distal respiratory sensor electrode or electrode array
26320	Removal of implant from finger or hand	Removal of implant from finger or hand
20680	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)	Removal of implant; deep (eg, buried wire, pin, screw, metal band, nail, rod or plate)
20670	Removal of implant; superficial (eg, buried wire, pin or rod) (separate procedure)	Removal of implant; superficial (eg, buried wire, pin or rod)
33264	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; multiple lead system	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator
33263	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; dual lead system	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator
33262	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; single lead system	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator
65920	Removal of implanted material, anterior segment of eye	Removal of implanted material, eye
67121	Removal of implanted material, posterior segment; intraocular	Removal of implanted material, eye
67120	Removal of implanted material, posterior segment; extraocular	Removal of implanted material, eye
22855	Removal of anterior instrumentation	Removal of instrumentation in spine
22852	Removal of posterior segmental instrumentation	Removal of instrumentation in spine
22850	Removal of posterior nonsegmental instrumentation (eg, Harrington rod)	Removal of instrumentation in spine
44137	Removal of transplanted intestinal allograft, complete	Removal of intestinal transplant
66940	Removal of lens material; extracapsular (other than 66840, 66850, 66852)	Removal of lens material

Continued		
Code	Code description	Procedure type
66930	Removal of lens material; intracapsular, for dislocated lens	Removal of lens material
66920	Removal of lens material; intracapsular	Removal of lens material
66852	Removal of lens material; pars plana approach, with or without vitrectomy	Removal of lens material
66850	Removal of lens material; phacofragmentation technique (mechanical or ultrasonic) (eg, phacoemulsification), with aspiration	Removal of lens material
66840	Removal of lens material; aspiration technique, 1 or more stages	Removal of lens material
19330	Removal of mammary implant material	Removal of mammary implant
19328	Removal of intact mammary implant	Removal of mammary implant
65175	Removal of ocular implant	Removal of ocular implant
48020	Removal of pancreatic calculus	Removal of pancreatic calculus
48556	Removal of transplanted pancreatic allograft	Removal of pancreatic transplant
49402	Removal of peritoneal foreign body from peritoneal cavity	Removal of peritoneal foreign body from peritoneal cavity
27488	Removal of prosthesis, including total knee prosthesis, methylmethacrylate with or without insertion of spacer, knee	Removal of prosthesis, knee
23335	Removal of prosthesis, includes debridement and synovectomy when performed; humeral and glenoid components (eg, total shoulder)	Removal of prosthesis, shoulder
23334	Removal of prosthesis, includes debridement and synovectomy when performed; humeral or glenoid component	Removal of prosthesis, shoulder
24164	Removal of prosthesis, includes debridement and synovectomy when performed; radial head	Removal of prosthesis, upper extremity
24160	Removal of prosthesis, includes debridement and synovectomy when performed; humeral and ulnar components	Removal of prosthesis, upper extremity
11971	Removal of tissue expander(s) without insertion of prosthesis	Removal of tissue expander(s) without insertion of prosthesis
22865	Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; lumbar	Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical
22864	Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical	Removal of total disc arthroplasty (artificial disc), anterior approach, single interspace; cervical
50370	Removal of transplanted renal allograft	Removal of transplanted renal allograft
69970	Removal of tumor, temporal bone	Removal of tumor, temporal bone
33980	Removal of ventricular assist device, implantable intracorporeal, single ventricle	Removal of ventricular assist device
33978	Removal of ventricular assist device; extracorporeal, biventricular	Removal of ventricular assist device
33977	Removal of ventricular assist device; extracorporeal, single ventricle	Removal of ventricular assist device
67010	Removal of vitreous, anterior approach (open sky technique or limbal incision); subtotal removal with mechanical vitrectomy	Removal of vitreous, anterior approach
67005	Removal of vitreous, anterior approach (open sky technique or limbal incision); partial removal	Removal of vitreous, anterior approach
25251	Removal of wrist prosthesis; complicated, including total wrist	Removal of wrist prosthesis
25250	Removal of wrist prosthesis; (separate procedure)	Removal of wrist prosthesis
69711	Removal or repair of electromagnetic bone conduction hearing device in temporal bone	Removal or repair of electromagnetic bone conduction hearing device in temporal bone
67560	Orbital implant (implant outside muscle cone); removal or revision	Removal or revision of orbital implant
53442	Removal or revision of sling for male urinary incontinence (eg, fascia or synthetic)	Removal or revision of sling for male urinary incontinence (eg, fascia or synthetic)
57287	Removal or revision of sling for stress incontinence (eg, fascia or synthetic)	Removal or revision of sling for stress incontinence
33974	Removal of intra-aortic balloon assist device from the ascending aorta, including repair of the ascending aorta, with or without graft	Removal of intra-aortic balloon assist device
33971	Removal of intra-aortic balloon assist device including repair of femoral artery, with or without graft	Removal of intra-aortic balloon assist device
50010	Renal exploration, not necessitating other specific procedures	Renal exploration
35286	Repair blood vessel with graft other than vein; lower extremity	Repair of blood vessel

Continued		
Code	Code description	Procedure type
35281	Repair blood vessel with graft other than vein; intra-abdominal	Repair of blood vessel
35251	Repair blood vessel with vein graft; intra-abdominal	Repair of blood vessel
35226	Repair blood vessel, direct; lower extremity	Repair of blood vessel
35221	Repair blood vessel, direct; intra-abdominal	Repair of blood vessel
35276	Repair blood vessel with graft other than vein; intrathoracic, without bypass	Repair of blood vessel
35271	Repair blood vessel with graft other than vein; intrathoracic, with bypass	Repair of blood vessel
35246	Repair blood vessel with vein graft; intrathoracic, without bypass	Repair of blood vessel
35241	Repair blood vessel with vein graft; intrathoracic, with bypass	Repair of blood vessel
35216	Repair blood vessel, direct; intrathoracic, without bypass	Repair of blood vessel
35211	Repair blood vessel, direct; intrathoracic, with bypass	Repair of blood vessel
35256	Repair blood vessel with vein graft; lower extremity	Repair of blood vessel
35261	Repair blood vessel with graft other than vein; neck	Repair of blood vessel
35231	Repair blood vessel with vein graft; neck	Repair of blood vessel
35201	Repair blood vessel, direct; neck	Repair of blood vessel
35266	Repair blood vessel with graft other than vein; upper extremity	Repair of blood vessel
35236	Repair blood vessel with vein graft; upper extremity	Repair of blood vessel
35207	Repair blood vessel, direct; hand, finger	Repair of blood vessel
35206	Repair blood vessel, direct; upper extremity	Repair of blood vessel
30545	Repair choanal atresia; transpalatine	Repair of choanal atresia
30540	Repair choanal atresia; intranasal	Repair of choanal atresia
26580	Repair cleft hand	Repair of cleft hand
30600	Repair fistula; oronasal	Repair of fistula, oronasal or oromaxillary
30580	Repair fistula; oromaxillary (combine with 31030 if antrotomy is included)	Repair of fistula, oronasal or oromaxillary
32800	Repair lung hernia through chest wall	Repair of lung hernia through chest wall
33507	Repair of anomalous (eg, intramural) aortic origin of coronary artery by unroofing or translocation	Repair of anomalous coronary artery from pulmonary artery origin
33506	Repair of anomalous coronary artery from pulmonary artery origin; by translocation from pulmonary artery to aorta	Repair of anomalous coronary artery from pulmonary artery origin
33505	Repair of anomalous coronary artery from pulmonary artery origin; with construction of intrapulmonary artery tunnel (Takeuchi procedure)	Repair of anomalous coronary artery from pulmonary artery origin
33504	Repair of anomalous coronary artery from pulmonary artery origin; by graft, with cardiopulmonary bypass	Repair of anomalous coronary artery from pulmonary artery origin
33503	Repair of anomalous coronary artery from pulmonary artery origin; by graft, without cardiopulmonary bypass	Repair of anomalous coronary artery from pulmonary artery origin
33502	Repair of anomalous coronary artery from pulmonary artery origin; by ligation	Repair of anomalous coronary artery from pulmonary artery origin
33730	Complete repair of anomalous pulmonary venous return (supracardiac, intracardiac, or infracardiac types)	Repair of anomalous pulmonary venous return
42235	Repair of anterior palate, including vomer flap	Repair of anterior palate, including vomer flap
33897	Percutaneous transluminal angioplasty of native or recurrent coarctation of the aorta	Repair of aortic coarctation
33895	Endovascular stent repair of coarctation of the ascending, transverse, or descending thoracic or abdominal aorta, involving stent placement; not crossing major side branches	Repair of aortic coarctation
33894	Endovascular stent repair of coarctation of the ascending, transverse, or descending thoracic or abdominal aorta, involving stent placement; across major side branches	Repair of aortic coarctation
33688	Closure of single ventricular septal defect, with or without patch; with removal of pulmonary artery band, with or without gusset	Repair of atrial and/or ventricular septal defects
33684	Closure of single ventricular septal defect, with or without patch; with pulmonary valvotomy or infundibular resection (acyanotic)	Repair of atrial and/or ventricular septal defects
33681	Closure of single ventricular septal defect, with or without patch;	Repair of atrial and/or ventricular septal defects
33677	Closure of multiple ventricular septal defects; with removal of pulmonary artery band, with or without gusset	Repair of atrial and/or ventricular septal defects
33676	Closure of multiple ventricular septal defects; with pulmonary valvotomy or infundibular resection (acyanotic)	Repair of atrial and/or ventricular septal defects
33675	Closure of multiple ventricular septal defects;	Repair of atrial and/or ventricular septal defects

Continued		
Code	Code description	Procedure type
33660	Repair of incomplete or partial atrioventricular canal (ostium primum atrial septal defect), with or without atrioventricular valve repair	Repair of atrial and/or ventricular septal defects
33647	Repair of atrial septal defect and ventricular septal defect, with direct or patch closure	Repair of atrial and/or ventricular septal defects
33641	Repair atrial septal defect, secundum, with cardiopulmonary bypass, with or without patch	Repair of atrial and/or ventricular septal defects
33670	Repair of complete atrioventricular canal, with or without prosthetic valve	Repair of atrioventricular canal
33665	Repair of intermediate or transitional atrioventricular canal, with or without atrioventricular valve repair	Repair of atrioventricular canal
67908	Repair of blepharoptosis; conjunctivo-tarso-Muller's muscle-levator resection (eg, Fasanella-Servat type)	Repair of blepharoptosis
67906	Repair of blepharoptosis; superior rectus technique with fascial sling (includes obtaining fascia)	Repair of blepharoptosis
67904	Repair of blepharoptosis; (tarso) levator resection or advancement, external approach	Repair of blepharoptosis
67903	Repair of blepharoptosis; (tarso) levator resection or advancement, internal approach	Repair of blepharoptosis
67902	Repair of blepharoptosis; frontalis muscle technique with autologous fascial sling (includes obtaining fascia)	Repair of blepharoptosis
67901	Repair of blepharoptosis; frontalis muscle technique with suture or other material (eg, banked fascia)	Repair of blepharoptosis
67900	Repair of brow ptosis (supraciliary, mid-forehead or coronal approach)	Repair of brow ptosis
33305	Repair of cardiac wound; with cardiopulmonary bypass	Repair of cardiac wound
33300	Repair of cardiac wound; without bypass	Repair of cardiac wound
46748	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty, combined abdominal and sacroperineal approach; with vaginal lengthening by intestinal graft or pedicle flaps	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty
46746	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty, combined abdominal and sacroperineal approach;	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty
46744	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty, sacroperineal approach	Repair of cloacal anomaly by anorectovaginoplasty and urethroplasty
33617	Repair of complex cardiac anomalies (eg, single ventricle) by modified Fontan procedure	Repair of complex cardiac anomalies
33615	Repair of complex cardiac anomalies (eg, tricuspid atresia) by closure of atrial septal defect and anastomosis of atria or vena cava to pulmonary artery (simple Fontan procedure)	Repair of complex cardiac anomalies
33610	Repair of complex cardiac anomalies (eg, single ventricle with subaortic obstruction) by surgical enlargement of ventricular septal defect	Repair of complex cardiac anomalies
33608	Repair of complex cardiac anomaly other than pulmonary atresia with ventricular septal defect by construction or replacement of conduit from right or left ventricle to pulmonary artery	Repair of complex cardiac anomalies
27727	Repair of congenital pseudarthrosis, tibia	Repair of congenital pseudarthrosis, tibia
33732	Repair of cor triatriatum or supravulvar mitral ring by resection of left atrial membrane	Repair of cor triatriatum or supravulvar mitral ring by resection of left atrial membrane
33501	Repair of coronary arteriovenous or arteriocardiac chamber fistula; without cardiopulmonary bypass	Repair of coronary arteriovenous or arteriocardiac chamber fistula
33500	Repair of coronary arteriovenous or arteriocardiac chamber fistula; with cardiopulmonary bypass	Repair of coronary arteriovenous or arteriocardiac chamber fistula
27698	Repair, secondary, disrupted ligament, ankle, collateral (eg, Watson-Jones procedure)	Repair of disrupted ligament, ankle
27696	Repair, primary, disrupted ligament, ankle; both collateral ligaments	Repair of disrupted ligament, ankle
27695	Repair, primary, disrupted ligament, ankle; collateral	Repair of disrupted ligament, ankle
33612	Repair of double outlet right ventricle with intraventricular tunnel repair; with repair of right ventricular outflow tract obstruction	Repair of double outlet right ventricle with intraventricular tunnel repair
33611	Repair of double outlet right ventricle with intraventricular tunnel repair;	Repair of double outlet right ventricle with intraventricular tunnel repair
63709	Repair of dural/cerebrospinal fluid leak or pseudomeningocele, with laminectomy	Repair of dural/cerebrospinal fluid leak or pseudomeningocele, with laminectomy
63707	Repair of dural/cerebrospinal fluid leak, not requiring laminectomy	Repair of dural/cerebrospinal fluid leak, not requiring laminectomy
67917	Repair of ectropion; extensive (eg, tarsal strip operations)	Repair of ectropion
67916	Repair of ectropion; excision tarsal wedge	Repair of ectropion

Continued		
Code	Code description	Procedure type
62120	Repair of encephalocele, skull vault, including cranioplasty	Repair of encephalocele, skull vault, including cranioplasty
57270	Repair of enterocele, abdominal approach (separate procedure)	Repair of enterocele
57268	Repair of enterocele, vaginal approach (separate procedure)	Repair of enterocele
67924	Repair of entropion; extensive (eg, tarsal strip or capsulopalpebral fascia repairs operation)	Repair of entropion
67923	Repair of entropion; excision tarsal wedge	Repair of entropion
67921	Repair of entropion; suture	Repair of entropion
43401	Transection of esophagus with repair, for esophageal varices	Repair of esophageal varices
43400	Ligation, direct, esophageal varices	Repair of esophageal varices
65285	Repair of laceration; cornea and/or sclera, perforating, with reposition or resection of uveal tissue	Repair of eye laceration
65280	Repair of laceration; cornea and/or sclera, perforating, not involving uveal tissue	Repair of eye laceration
65273	Repair of laceration; conjunctiva, by mobilization and rearrangement, with hospitalization	Repair of eye laceration
35870	Repair of graft-enteric fistula	Repair of graft-enteric fistula
33853	Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material; with cardiopulmonary bypass	Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material
33852	Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material; without cardiopulmonary bypass	Repair of hypoplastic or interrupted aortic arch using autogenous or prosthetic material
46710	Repair of ileoanal pouch fistula/sinus (eg, perineal or vaginal), pouch advancement; transperineal approach	Repair of ileoanal pouch fistula/sinus
46712	Repair of ileoanal pouch fistula/sinus (eg, perineal or vaginal), pouch advancement; combined transperineal and transabdominal approach	Repair of ileoanal pouch fistula/sinus
46716	Repair of low imperforate anus; with transposition of anoperineal or anovestibular fistula	Repair of imperforate anus
46715	Repair of low imperforate anus; with anoperineal fistula (cut-back procedure)	Repair of imperforate anus
46742	Repair of high imperforate anus with rectourethral or rectovaginal fistula; combined transabdominal and sacroperineal approaches	Repair of imperforate anus
46735	Repair of high imperforate anus without fistula; combined transabdominal and sacroperineal approaches	Repair of imperforate anus
46740	Repair of high imperforate anus with rectourethral or rectovaginal fistula; perineal or sacroperineal approach	Repair of imperforate anus
46730	Repair of high imperforate anus without fistula; perineal or sacroperineal approach	Repair of imperforate anus
53449	Repair of inflatable urethral/bladder neck sphincter, including pump, reservoir, and cuff	Repair of inflatable urethral/bladder neck sphincter, including pump, reservoir, and cuff
34832	Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto bifemoral prosthesis	Repair of infrarenal aortic aneurysm or dissection - open
34831	Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; aorto bi-iliac prosthesis	Repair of infrarenal aortic aneurysm or dissection - open
34830	Open repair of infrarenal aortic aneurysm or dissection, plus repair of associated arterial trauma, following unsuccessful endovascular repair; tube prosthesis	Repair of infrarenal aortic aneurysm or dissection - open
66680	Repair of iris, ciliary body (as for iridodialysis)	Repair of iris, ciliary body
33724	Repair of isolated partial anomalous pulmonary venous return (eg, Scimitar Syndrome)	Repair of isolated partial anomalous pulmonary venous return (eg, Scimitar Syndrome)
33414	Repair of left ventricular outflow tract obstruction by patch enlargement of the outflow tract	Repair of left ventricular outflow tract obstruction by patch enlargement of the outflow tract
63706	Repair of myelomeningocele; larger than 5 cm diameter	Repair of meningocele or myelomeningocele
63704	Repair of myelomeningocele; less than 5 cm diameter	Repair of meningocele or myelomeningocele
63702	Repair of meningocele; larger than 5 cm diameter	Repair of meningocele or myelomeningocele
63700	Repair of meningocele; less than 5 cm diameter	Repair of meningocele or myelomeningocele

Continued		
Code	Code description	Procedure type
42260	Repair of nasolabial fistula	Repair of nasolabial fistula
33496	Repair of non-structural prosthetic valve dysfunction with cardiopulmonary bypass (separate procedure)	Repair of non-structural prosthetic valve dysfunction with cardiopulmonary bypass
49611	Repair of omphalocele (Gross type operation); second stage	Repair of omphalocele or gastroschisis
49610	Repair of omphalocele (Gross type operation); first stage	Repair of omphalocele or gastroschisis
49606	Repair of large omphalocele or gastroschisis; with removal of prosthesis, final reduction and closure, in operating room	Repair of omphalocele or gastroschisis
49605	Repair of large omphalocele or gastroschisis; with or without prosthesis	Repair of omphalocele or gastroschisis
49600	Repair of small omphalocele, with primary closure	Repair of omphalocele or gastroschisis
33824	Repair of patent ductus arteriosus; by division, 18 years and older	Repair of patent ductus arteriosus
33822	Repair of patent ductus arteriosus; by division, younger than 18 years	Repair of patent ductus arteriosus
33820	Repair of patent ductus arteriosus; by ligation	Repair of patent ductus arteriosus
33545	Repair of postinfarction ventricular septal defect, with or without myocardial resection	Repair of postinfarction ventricular septal defect
33926	Repair of pulmonary artery arborization anomalies by unifocalization; with cardiopulmonary bypass	Repair of pulmonary artery arborization anomalies by unifocalization
33925	Repair of pulmonary artery arborization anomalies by unifocalization; without cardiopulmonary bypass	Repair of pulmonary artery arborization anomalies by unifocalization
33917	Repair of pulmonary artery stenosis by reconstruction with patch or graft	Repair of pulmonary artery stenosis by reconstruction with patch or graft
33920	Repair of pulmonary atresia with ventricular septal defect, by construction or replacement of conduit from right or left ventricle to pulmonary artery	Repair of pulmonary atresia with ventricular septal defect, by construction or replacement of conduit from right or left ventricle to pulmonary artery
33726	Repair of pulmonary venous stenosis	Repair of pulmonary venous stenosis
45560	Repair of rectocele (separate procedure)	Repair of rectocele
67113	Repair of complex retinal detachment (eg, proliferative vitreoretinopathy, stage C-1 or greater, diabetic traction retinal detachment, retinopathy of prematurity, retinal tear of greater than 90 degrees), with vitrectomy and membrane peeling, may include air, gas, or silicone oil tamponade, cryotherapy, endolaser photocoagulation, drainage of subretinal fluid, scleral buckling, and/or removal of lens	Repair of retinal detachment
67112	Repair of retinal detachment; by scleral buckling or vitrectomy, on patient having previous ipsilateral retinal detachment repair(s) using scleral buckling or vitrectomy techniques	Repair of retinal detachment
67110	Repair of retinal detachment; by injection of air or other gas (eg, pneumatic retinopexy)	Repair of retinal detachment
67108	Repair of retinal detachment; with vitrectomy, any method, with or without air or gas tamponade, focal endolaser photocoagulation, cryotherapy, drainage of subretinal fluid, scleral buckling, and/or removal of lens by same technique	Repair of retinal detachment
67107	Repair of retinal detachment; scleral buckling (such as lamellar scleral dissection, imbrication or encircling procedure), with or without implant, with or without cryotherapy, photocoagulation, and drainage of subretinal fluid	Repair of retinal detachment
23412	Repair of ruptured musculotendinous cuff (eg, rotator cuff) open; chronic	Repair of ruptured musculotendinous cuff - open
23410	Repair of ruptured musculotendinous cuff (eg, rotator cuff) open; acute	Repair of ruptured musculotendinous cuff - open
66225	Repair of scleral staphyloma; with graft	Repair of scleral staphyloma
66220	Repair of scleral staphyloma; without graft	Repair of scleral staphyloma
33619	Repair of single ventricle with aortic outflow obstruction and aortic arch hypoplasia (hypoplastic left heart syndrome) (eg, Norwood procedure)	Repair of single ventricle with aortic outflow obstruction and aortic arch hypoplasia
68340	Repair of symblepharon; division of symblepharon, with or without insertion of conformer or contact lens	Repair of symblepharon
68335	Repair of symblepharon; with free graft conjunctiva or buccal mucous membrane (includes obtaining graft)	Repair of symblepharon
68330	Repair of symblepharon; conjunctivoplasty, without graft	Repair of symblepharon
26562	Repair of syndactyly (web finger) each web space; complex (eg, involving bone, nails)	Repair of syndactyly
26561	Repair of syndactyly (web finger) each web space; with skin flaps and grafts	Repair of syndactyly

Continued		
Code	Code description	Procedure type
26560	Repair of syndactyly (web finger) each web space; with skin flaps	Repair of syndactyly
33781	Repair of transposition of the great arteries, aortic pulmonary artery reconstruction (eg, Jatene type); with repair of subpulmonic obstruction	Repair of transposition of the great arteries
33780	Repair of transposition of the great arteries, aortic pulmonary artery reconstruction (eg, Jatene type); with closure of ventricular septal defect	Repair of transposition of the great arteries
33779	Repair of transposition of the great arteries, aortic pulmonary artery reconstruction (eg, Jatene type); with removal of pulmonary band	Repair of transposition of the great arteries
33778	Repair of transposition of the great arteries, aortic pulmonary artery reconstruction (eg, Jatene type);	Repair of transposition of the great arteries
33777	Repair of transposition of the great arteries, atrial baffle procedure (eg, Mustard or Senning type) with cardiopulmonary bypass; with repair of subpulmonic obstruction	Repair of transposition of the great arteries
33776	Repair of transposition of the great arteries, atrial baffle procedure (eg, Mustard or Senning type) with cardiopulmonary bypass; with closure of ventricular septal defect	Repair of transposition of the great arteries
33775	Repair of transposition of the great arteries, atrial baffle procedure (eg, Mustard or Senning type) with cardiopulmonary bypass; with removal of pulmonary band	Repair of transposition of the great arteries
33774	Repair of transposition of the great arteries, atrial baffle procedure (eg, Mustard or Senning type) with cardiopulmonary bypass;	Repair of transposition of the great arteries
33771	Repair of transposition of the great arteries with ventricular septal defect and subpulmonary stenosis; with surgical enlargement of ventricular septal defect	Repair of transposition of the great arteries
33770	Repair of transposition of the great arteries with ventricular septal defect and subpulmonary stenosis; without surgical enlargement of ventricular septal defect	Repair of transposition of the great arteries
55060	Repair of tunica vaginalis hydrocele (Bottle type)	Repair of tunica vaginalis hydrocele
65290	Repair of wound, extraocular muscle, tendon and/or Tenon's capsule	Repair of wound, extraocular muscle, tendon and/or Tenon's capsule
26545	Reconstruction, collateral ligament, interphalangeal joint, single, including graft, each joint	Repair or reconstruction of collateral ligament, hand and/or fingers
26542	Reconstruction, collateral ligament, metacarpophalangeal joint, single; with local tissue (eg, adductor advancement)	Repair or reconstruction of collateral ligament, hand and/or fingers
26541	Reconstruction, collateral ligament, metacarpophalangeal joint, single; with tendon or fascial graft (includes obtaining graft)	Repair or reconstruction of collateral ligament, hand and/or fingers
26540	Repair of collateral ligament, metacarpophalangeal or interphalangeal joint	Repair or reconstruction of collateral ligament, hand and/or fingers
35190	Repair, acquired or traumatic arteriovenous fistula; extremities	Repair of arteriovenous fistula, congenital
35189	Repair, acquired or traumatic arteriovenous fistula; thorax and abdomen	Repair of arteriovenous fistula, congenital
35188	Repair, acquired or traumatic arteriovenous fistula; head and neck	Repair of arteriovenous fistula, congenital
35184	Repair, congenital arteriovenous fistula; extremities	Repair of arteriovenous fistula, congenital
35182	Repair, congenital arteriovenous fistula; thorax and abdomen	Repair of arteriovenous fistula, congenital
35180	Repair, congenital arteriovenous fistula; head and neck	Repair of arteriovenous fistula, congenital
27656	Repair, fascial defect of leg	Repair of fascial defect of leg
28322	Repair, nonunion or malunion; metatarsal, with or without bone graft (includes obtaining graft)	Repair of nonunion or malunion, foot bones
28320	Repair, nonunion or malunion; tarsal bones	Repair of nonunion or malunion, foot bones
69666	Repair oval window fistula	Repair of oval window fistula
43335	Repair, paraesophageal hiatal hernia (including fundoplication), via thoracotomy, except neonatal; with implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
43334	Repair, paraesophageal hiatal hernia (including fundoplication), via thoracotomy, except neonatal; without implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
43337	Repair, paraesophageal hiatal hernia, (including fundoplication), via thoracoabdominal incision, except neonatal; with implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
43336	Repair, paraesophageal hiatal hernia, (including fundoplication), via thoracoabdominal incision, except neonatal; without implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
43333	Repair, paraesophageal hiatal hernia (including fundoplication), via laparotomy, except neonatal; with implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
43332	Repair, paraesophageal hiatal hernia (including fundoplication), via laparotomy, except neonatal; without implantation of mesh or other prosthesis	Repair of paraesophageal hiatal hernia (including fundoplication)
27409	Repair, primary, torn ligament and/or capsule, knee; collateral and cruciate ligaments	Repair of primary, torn ligament and/or capsule, knee

Continued		
Code	Code description	Procedure type
27407	Repair, primary, torn ligament and/or capsule, knee; cruciate	Repair of primary, torn ligament and/or capsule, knee
27405	Repair, primary, torn ligament and/or capsule, knee; collateral	Repair of primary, torn ligament and/or capsule, knee
69667	Repair round window fistula	Repair of round window fistula
27654	Repair, secondary, Achilles tendon, with or without graft	Repair of ruptured Achilles tendon
27652	Repair, primary - open or percutaneous, ruptured Achilles tendon; with graft (includes obtaining graft)	Repair of ruptured Achilles tendon
27650	Repair, primary - open or percutaneous, ruptured Achilles tendon;	Repair of ruptured Achilles tendon
33720	Repair sinus of Valsalva aneurysm, with cardiopulmonary bypass	Repair of sinus of Valsalva aneurysm, with cardiopulmonary bypass
33710	Repair sinus of Valsalva fistula, with cardiopulmonary bypass; with repair of ventricular septal defect	Repair of sinus of Valsalva fistula
33702	Repair sinus of Valsalva fistula, with cardiopulmonary bypass;	Repair of sinus of Valsalva fistula
50840	Replacement of all or part of ureter by intestine segment, including intestine anastomosis	Replacement of all or part of ureter by intestine segment, including intestine anastomosis
11970	Replacement of tissue expander with permanent prosthesis	Replacement of tissue expander with permanent prosthesis
33983	Replacement of ventricular assist device pump(s); implantable intracorporeal, single ventricle, with cardiopulmonary bypass	Replacement of ventricular assist device
33982	Replacement of ventricular assist device pump(s); implantable intracorporeal, single ventricle, without cardiopulmonary bypass	Replacement of ventricular assist device
33981	Replacement of extracorporeal ventricular assist device, single or biventricular, pump(s), single or each pump	Replacement of ventricular assist device
62194	Replacement or irrigation, subarachnoid/subdural catheter	Replacement or irrigation, subarachnoid/subdural catheter
63744	Replacement, irrigation or revision of lumbo-subarachnoid shunt	Replacement, irrigation or revision of lumbo-subarachnoid shunt
54438	Replantation, penis, complete amputation including urethral repair	Replantation, upper extremity
20838	Replantation, foot, complete amputation	Replantation, upper extremity
20827	Replantation, thumb (includes distal tip to MP joint), complete amputation	Replantation, upper extremity
20824	Replantation, thumb (includes carpometacarpal joint to MP joint), complete amputation	Replantation, upper extremity
20822	Replantation, digit, excluding thumb (includes distal tip to sublimis tendon insertion), complete amputation	Replantation, upper extremity
20816	Replantation, digit, excluding thumb (includes metacarpophalangeal joint to insertion of flexor sublimis tendon), complete amputation	Replantation, upper extremity
20808	Replantation, hand (includes hand through metacarpophalangeal joints), complete amputation	Replantation, upper extremity
20805	Replantation, forearm (includes radius and ulna to radial carpal joint), complete amputation	Replantation, upper extremity
20802	Replantation, arm (includes surgical neck of humerus through elbow joint), complete amputation	Replantation, upper extremity
66825	Repositioning of intraocular lens prosthesis, requiring an incision (separate procedure)	Repositioning of intraocular lens prosthesis, requiring an incision
58956	Bilateral salpingo-oophorectomy with total omentectomy, total abdominal hysterectomy for malignancy	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy
58954	Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy

Continued		
Code	Code description	Procedure type
58953	Bilateral salpingo-oophorectomy with omentectomy, total abdominal hysterectomy and radical dissection for debulking;	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy
58952	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with radical dissection for debulking (ie, radical excision or destruction, intra-abdominal or retroperitoneal tumors)	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy
58951	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy
32503	Resection of apical lung tumor (eg, Pancoast tumor), including chest wall resection, rib(s) resection(s), neurovascular dissection, when performed; without chest wall reconstruction(s)	Resection of apical lung tumor
32504	Resection of apical lung tumor (eg, Pancoast tumor), including chest wall resection, rib(s) resection(s), neurovascular dissection, when performed; with chest wall reconstruction	Resection of apical lung tumor
39561	Resection, diaphragm; with complex repair (eg, prosthetic material, local muscle flap)	Resection of diaphragm
39560	Resection, diaphragm; with simple repair (eg, primary suture)	Resection of diaphragm
24155	Resection of elbow joint (arthrectomy)	Resection of elbow joint (arthrectomy)
33130	Resection of external cardiac tumor	Resection of external cardiac tumor
23195	Resection, humeral head	Resection of humeral head
39200	Resection of mediastinal cyst	Resection of mediastinal cyst
39220	Resection of mediastinal tumor	Resection of mediastinal tumor
28160	Hemiphalangectomy or interphalangeal joint excision, toe, proximal end of phalanx, each	Resection of metatarsal or toe
28153	Resection, condyle(s), distal end of phalanx, each toe	Resection of metatarsal or toe
28150	Phalangectomy, toe, each toe	Resection of metatarsal or toe
28140	Metatarsectomy	Resection of metatarsal or toe
28130	Talectomy (astragalectomy)	Resection of metatarsal or toe
28126	Resection, partial or complete, phalangeal base, each toe	Resection of metatarsal or toe
42120	Resection of palate or extensive resection of lesion	Resection of palate or extensive resection of lesion
33050	Resection of pericardial cyst or tumor	Resection of pericardial cyst or tumor
42892	Resection of lateral pharyngeal wall or pyriform sinus, direct closure by advancement of lateral and posterior pharyngeal walls	Resection of pharyngeal wall
42894	Resection of pharyngeal wall requiring closure with myocutaneous or fasciocutaneous flap or free muscle, skin, or fascial flap with microvascular anastomosis	Resection of pharyngeal wall
58957	Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed;	Resection of recurrent ovarian, tubal, primary peritoneal, uterine malignancy
58958	Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy	Resection of recurrent ovarian, tubal, primary peritoneal, uterine malignancy
32900	Resection of ribs, extrapleural, all stages	Resection of ribs, extrapleural, all stages
55150	Resection of scrotum	Resection of scrotum
69535	Resection temporal bone, external approach	Resection of temporal bone, external approach
48105	Resection or debridement of pancreas and peripancreatic tissue for acute necrotizing pancreatitis	Resection or debridement of pancreas and peripancreatic tissue for acute necrotizing pancreatitis
61608	Resection or excision of neoplastic, vascular or infectious lesion of parasellar area, cavernous sinus, clivus or midline skull base; intradural, including dural repair, with or without graft	Resection or excision of neoplastic, vascular or infectious lesion, intracranial

Continued		
Code	Code description	Procedure type
61607	Resection or excision of neoplastic, vascular or infectious lesion of parasellar area, cavernous sinus, clivus or midline skull base; extradural	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61606	Resection or excision of neoplastic, vascular or infectious lesion of infratemporal fossa, parapharyngeal space, petrous apex; intradural, including dural repair, with or without graft	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61605	Resection or excision of neoplastic, vascular or infectious lesion of infratemporal fossa, parapharyngeal space, petrous apex; extradural	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61601	Resection or excision of neoplastic, vascular or infectious lesion of base of anterior cranial fossa; intradural, including dural repair, with or without graft	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61600	Resection or excision of neoplastic, vascular or infectious lesion of base of anterior cranial fossa; extradural	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61616	Resection or excision of neoplastic, vascular or infectious lesion of base of posterior cranial fossa, jugular foramen, foramen magnum, or C1-C3 vertebral bodies; intradural, including dural repair, with or without graft	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
61615	Resection or excision of neoplastic, vascular or infectious lesion of base of posterior cranial fossa, jugular foramen, foramen magnum, or C1-C3 vertebral bodies; extradural	Resection or excision of neoplastic, vascular or infectious lesion, intracranial
33415	Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis	Resection or incision of subvalvular tissue for discrete subvalvular aortic stenosis
23440	Resection or transplantation of long tendon of biceps	Resection or transplantation of long tendon of biceps
37231	Revascularization, endovascular - open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37230	Revascularization, endovascular - open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37229	Revascularization, endovascular - open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with atherectomy, includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37228	Revascularization, endovascular - open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty	Endovascular revascularization, lower extremity
37227	Revascularization, endovascular - open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37226	Revascularization, endovascular - open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37225	Revascularization, endovascular - open or percutaneous, femoral, popliteal artery(s), unilateral; with atherectomy, includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37224	Revascularization, endovascular - open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty	Endovascular revascularization, lower extremity
37221	Revascularization, endovascular - open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Endovascular revascularization, lower extremity
37220	Revascularization, endovascular - open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	Endovascular revascularization, lower extremity
57426	Revision (including removal) of prosthetic vaginal graft - laparoscopic approach	Revision (including removal) of prosthetic vaginal graft - laparoscopic
57296	Revision (including removal) of prosthetic vaginal graft; open abdominal approach	Revision (including removal) of prosthetic vaginal graft - open
57295	Revision (including removal) of prosthetic vaginal graft; vaginal approach	Revision (including removal) of prosthetic vaginal graft - open
36833	Revision - open, arteriovenous fistula; with thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	Revision and/or thrombectomy of arteriovenous fistula
36832	Revision - open, arteriovenous fistula; without thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	Revision and/or thrombectomy of arteriovenous fistula
36831	Thrombectomy - open, arteriovenous fistula without revision, autogenous or nonautogenous dialysis graft (separate procedure)	Revision and/or thrombectomy of arteriovenous fistula

Continued		
Code	Code description	Procedure type
66185	Revision of aqueous shunt to extraocular reservoir	Revision of aqueous shunt to extraocular equatorial plate reservoir
25449	Revision of arthroplasty, including removal of implant, wrist joint	Revision of aqueous shunt to extraocular equatorial plate reservoir
61888	Revision or removal of cranial neurostimulator pulse generator or receiver	Revision of cranial neurostimulator pulse generator or receiver
35884	Revision, femoral anastomosis of synthetic arterial bypass graft in groin - open; with autogenous vein patch graft	Revision of femoral anastomosis of synthetic arterial bypass graft in groin
35883	Revision, femoral anastomosis of synthetic arterial bypass graft in groin - open; with nonautogenous patch graft (eg, Dacron, ePTFE, bovine pericardium)	Revision of femoral anastomosis of synthetic arterial bypass graft in groin
69840	Revision fenestration operation	Revision of fenestration operation
43848	Revision - open, of gastric restrictive procedure for morbid obesity, other than adjustable gastric restrictive device (separate procedure)	Revision of gastric restrictive procedure for morbid obesity, other than adjustable gastric restrictive device - open
43865	Revision of gastrojejunal anastomosis (gastrojejunostomy) with reconstruction, with or without partial gastrectomy or intestine resection; with vagotomy	Revision of gastroduodenal or gastrojejunal anastomosis
43860	Revision of gastrojejunal anastomosis (gastrojejunostomy) with reconstruction, with or without partial gastrectomy or intestine resection; without vagotomy	Revision of gastroduodenal or gastrojejunal anastomosis
43855	Revision of gastroduodenal anastomosis (gastroduodenostomy) with reconstruction; with vagotomy	Revision of gastroduodenal or gastrojejunal anastomosis
43850	Revision of gastroduodenal anastomosis (gastroduodenostomy) with reconstruction; without vagotomy	Revision of gastroduodenal or gastrojejunal anastomosis
35881	Revision, lower extremity arterial bypass, without thrombectomy - open; with segmental vein interposition	Revision of lower extremity arterial bypass
35879	Revision, lower extremity arterial bypass, without thrombectomy - open; with vein patch angioplasty	Revision of lower extremity arterial bypass
49426	Revision of peritoneal-venous shunt	Revision of peritoneal-venous shunt
19380	Revision of reconstructed breast	Revision of reconstructed breast
69662	Revision of stapedectomy or stapedotomy	Revision of stapedectomy or stapedotomy
24371	Revision of total elbow arthroplasty, including allograft when performed; humeral and ulnar component	Arthroplasty of elbow
24370	Revision of total elbow arthroplasty, including allograft when performed; humeral or ulnar component	Arthroplasty of elbow
23474	Revision of total shoulder arthroplasty, including allograft when performed; humeral and glenoid component	Arthroplasty of shoulder
23473	Revision of total shoulder arthroplasty, including allograft when performed; humeral or glenoid component	Arthroplasty of shoulder
31830	Revision of tracheostomy scar	Revision of tracheostomy scar
50728	Revision of urinary-cutaneous anastomosis (any type urostomy); with repair of fascial defect and hernia	Revision of urinary-cutaneous anastomosis
50727	Revision of urinary-cutaneous anastomosis (any type urostomy);	Revision of urinary-cutaneous anastomosis
61880	Revision or removal of intracranial neurostimulator electrodes	Neurostimulator procedures
64585	Revision or removal of peripheral neurostimulator electrode array	Neurostimulator procedures
64595	Revision or removal of peripheral or gastric neurostimulator pulse generator or receiver	Neurostimulator procedures
66250	Revision or repair of operative wound of anterior segment, any type, early or late, major or minor procedure	Revision or repair of operative wound of anterior segment of eye
64569	Revision or replacement of cranial nerve (eg, vagus nerve) neurostimulator electrode array, including connection to existing pulse generator	Neurostimulator procedures
64583	Revision or replacement of hypoglossal nerve neurostimulator array and distal respiratory sensor electrode or electrode array, including connection to existing pulse generator	Neurostimulator procedures
30160	Rhinectomy; total	Rhinectomy
30150	Rhinectomy; partial	Rhinectomy
30630	Repair nasal septal perforations	Rhinoplasty
30520	Septoplasty or submucous resection, with or without cartilage scoring, contouring or replacement with graft	Rhinoplasty
30468	Repair of nasal valve collapse with subcutaneous/submucosal lateral wall implant(s)	Rhinoplasty
30465	Repair of nasal vestibular stenosis (eg, spreader grafting, lateral nasal wall reconstruction)	Rhinoplasty

Continued		
Code	Code description	Procedure type
30462	Rhinoplasty for nasal deformity secondary to congenital cleft lip and/or palate, including columellar lengthening; tip, septum, osteotomies	Rhinoplasty
30460	Rhinoplasty for nasal deformity secondary to congenital cleft lip and/or palate, including columellar lengthening; tip only	Rhinoplasty
30450	Rhinoplasty, secondary; major revision (nasal tip work and osteotomies)	Rhinoplasty
30435	Rhinoplasty, secondary; intermediate revision (bony work with osteotomies)	Rhinoplasty
30430	Rhinoplasty, secondary; minor revision (small amount of nasal tip work)	Rhinoplasty
30420	Rhinoplasty, primary; including major septal repair	Rhinoplasty
30410	Rhinoplasty, primary; complete, external parts including bony pyramid, lateral and alar cartilages, and/or elevation of nasal tip	Rhinoplasty
30400	Rhinoplasty, primary; lateral and alar cartilages and/or elevation of nasal tip	Rhinoplasty
21616	Excision first and/or cervical rib; with sympathectomy	Rib excision
21615	Excision first and/or cervical rib;	Rib excision
21600	Excision of rib, partial	Rib excision
33476	Right ventricular resection for infundibular stenosis, with or without commissurotomy	Right ventricular resection for infundibular stenosis
58700	Salpingectomy, complete or partial, unilateral or bilateral (separate procedure)	Salpingectomy
58950	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy;	Salpingo-oophorectomy
58720	Salpingo-oophorectomy, complete or partial, unilateral or bilateral (separate procedure)	Salpingo-oophorectomy
58770	Salpingostomy (salpingoneostomy)	Salpingostomy
23400	Scapulopexy (eg, Sprengels deformity or for paralysis)	Scapulopexy
67255	Scleral reinforcement (separate procedure); with graft	Scleral reinforcement
67250	Scleral reinforcement (separate procedure); without graft	Scleral reinforcement
55180	Scrotoplasty; complicated	Scrotoplasty
55175	Scrotoplasty; simple	Scrotoplasty
13160	Secondary closure of surgical wound or dehiscence, extensive or complicated	Secondary closure of surgical wound or dehiscence
61619	Secondary repair of dura for cerebrospinal fluid leak, anterior, middle or posterior cranial fossa following surgery of the skull base; by local or regionalized vascularized pedicle flap or myocutaneous flap (including galea, temporalis, frontalis or occipitalis muscle)	Secondary repair of dura for cerebrospinal fluid leak
61618	Secondary repair of dura for cerebrospinal fluid leak, anterior, middle or posterior cranial fossa following surgery of the skull base; by free tissue graft (eg, pericranium, fascia, tensor fascia lata, adipose tissue, homologous or synthetic grafts)	Secondary repair of dura for cerebrospinal fluid leak
21275	Secondary revision of orbitocraniofacial reconstruction	Secondary revision of orbitocraniofacial reconstruction
31595	Section recurrent laryngeal nerve, therapeutic (separate procedure), unilateral	Section of recurrent laryngeal nerve, therapeutic
30620	Septal or other intranasal dermatoplasty (does not include obtaining graft)	Septal or other intranasal dermatoplasty
23174	Sequestrectomy (eg, for osteomyelitis or bone abscess), humeral head to surgical neck	Sequestrectomy of bone in upper extremity
24138	Sequestrectomy (eg, for osteomyelitis or bone abscess), olecranon process	Sequestrectomy of bone in upper extremity
24136	Sequestrectomy (eg, for osteomyelitis or bone abscess), radial head or neck	Sequestrectomy of bone in upper extremity
24134	Sequestrectomy (eg, for osteomyelitis or bone abscess), shaft or distal humerus	Sequestrectomy of bone in upper extremity
25145	Sequestrectomy (eg, for osteomyelitis or bone abscess), forearm and/or wrist	Sequestrectomy of bone in upper extremity
23172	Sequestrectomy (eg, for osteomyelitis or bone abscess), scapula	Sequestrectomy of shoulder
23170	Sequestrectomy (eg, for osteomyelitis or bone abscess), clavicle	Sequestrectomy of shoulder
28315	Sesamoidectomy, first toe (separate procedure)	Sesamoidectomy, first toe
26185	Sesamoidectomy, thumb or finger (separate procedure)	Sesamoidectomy, thumb or finger
65880	Severing adhesions of anterior segment of eye, incisional technique (with or without injection of air or liquid) (separate procedure); corneovitreal adhesions	Severing adhesions of anterior segment of eye
65875	Severing adhesions of anterior segment of eye, incisional technique (with or without injection of air or liquid) (separate procedure); posterior synechiae	Severing adhesions of anterior segment of eye
65870	Severing adhesions of anterior segment of eye, incisional technique (with or without injection of air or liquid) (separate procedure); anterior synechiae, except goniosynechiae	Severing adhesions of anterior segment of eye

Continued		
Code	Code description	Procedure type
65865	Severing adhesions of anterior segment of eye, incisional technique (with or without injection of air or liquid) (separate procedure); goniosynechia	Severing adhesions of anterior segment of eye
65860	Severing adhesions of anterior segment, laser technique (separate procedure)	Severing adhesions of anterior segment of eye, laser
23020	Capsular contracture release (eg, Sever type procedure)	Shoulder contracture release
33755	Shunt; ascending aorta to pulmonary artery (Waterston type operation)	Shunt; ascending aorta to pulmonary artery (Waterston type operation)
33764	Shunt; central, with prosthetic graft	Shunt; central, with prosthetic graft
33762	Shunt; descending aorta to pulmonary artery (Potts-Smith type operation)	Shunt; descending aorta to pulmonary artery (Potts-Smith type operation)
33750	Shunt; subclavian to pulmonary artery (Blalock-Taussig type operation)	Shunt; subclavian to pulmonary artery (Blalock-Taussig type operation)
33766	Shunt; superior vena cava to pulmonary artery for flow to 1 lung (classical Glenn procedure)	Shunt; superior vena cava to pulmonary artery for flow to 1 lung (classical Glenn procedure)
33767	Shunt; superior vena cava to pulmonary artery for flow to both lungs (bidirectional Glenn procedure)	Shunt; superior vena cava to pulmonary artery for flow to both lungs (bidirectional Glenn procedure)
42340	Sialolithotomy; parotid, extraoral or complicated intraoral	Sialolithotomy
42335	Sialolithotomy; submandibular (submaxillary), complicated, intraoral	Sialolithotomy
31087	Sinusotomy frontal; nonobliterative, with osteoplastic flap, coronal incision	Sinusotomy, with or without reconstruction
31086	Sinusotomy frontal; nonobliterative, with osteoplastic flap, brow incision	Sinusotomy, with or without reconstruction
31085	Sinusotomy frontal; obliterative, with osteoplastic flap, coronal incision	Sinusotomy, with or without reconstruction
31084	Sinusotomy frontal; obliterative, with osteoplastic flap, brow incision	Sinusotomy, with or without reconstruction
31090	Sinusotomy, unilateral, 3 or more paranasal sinuses (frontal, maxillary, ethmoid, sphenoid)	Sinusotomy, with or without reconstruction
31081	Sinusotomy frontal; obliterative, without osteoplastic flap, coronal incision (includes ablation)	Sinusotomy, with or without reconstruction
31080	Sinusotomy frontal; obliterative without osteoplastic flap, brow incision (includes ablation)	Sinusotomy, with or without reconstruction
31075	Sinusotomy frontal; transorbital, unilateral (for mucocele or osteoma, Lynch type)	Sinusotomy, with or without reconstruction
31070	Sinusotomy frontal; external, simple (trephine operation)	Sinusotomy, with or without reconstruction
15277	Application of skin substitute graft to face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits, total wound surface area greater than or equal to 100 sq cm; first 100 sq cm wound surface area, or 1% of body area of infants and children	Skin graft
15275	Application of skin substitute graft to face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits, total wound surface area up to 100 sq cm; first 25 sq cm or less wound surface area	Skin graft
15273	Application of skin substitute graft to trunk, arms, legs, total wound surface area greater than or equal to 100 sq cm; first 100 sq cm wound surface area, or 1% of body area of infants and children	Skin graft
15271	Application of skin substitute graft to trunk, arms, legs, total wound surface area up to 100 sq cm; first 25 sq cm or less wound surface area	Skin graft
15260	Full thickness graft, free, including direct closure of donor site, nose, ears, eyelids, and/or lips; 20 sq cm or less	Skin graft
15240	Full thickness graft, free, including direct closure of donor site, forehead, cheeks, chin, mouth, neck, axillae, genitalia, hands, and/or feet; 20 sq cm or less	Skin graft
15220	Full thickness graft, free, including direct closure of donor site, scalp, arms, and/or legs; 20 sq cm or less	Skin graft
15200	Full thickness graft, free, including direct closure of donor site, trunk; 20 sq cm or less	Skin graft
15155	Tissue cultured skin autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 25 sq cm or less	Skin graft
15150	Tissue cultured skin autograft, trunk, arms, legs; first 25 sq cm or less	Skin graft
15135	Dermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children	Skin graft
15130	Dermal autograft, trunk, arms, legs; first 100 sq cm or less, or 1% of body area of infants and children	Skin graft
15120	Split-thickness autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children (except 15050)	Skin graft

Continued		
Code	Code description	Procedure type
15115	Epidermal autograft, face, scalp, eyelids, mouth, neck, ears, orbits, genitalia, hands, feet, and/or multiple digits; first 100 sq cm or less, or 1% of body area of infants and children	Skin graft
15110	Epidermal autograft, trunk, arms, legs; first 100 sq cm or less, or 1% of body area of infants and children	Skin graft
15100	Split-thickness autograft, trunk, arms, legs; first 100 sq cm or less, or 1% of body area of infants and children (except 15050)	Skin graft
15050	Pinch graft, single or multiple, to cover small ulcer, tip of digit, or other minimal open area (except on face), up to defect size 2 cm diameter	Skin graft
53440	Sling operation for correction of male urinary incontinence (eg, fascia or synthetic)	Sling operation for correction of male urinary incontinence
57288	Sling operation for stress incontinence (eg, fascia or synthetic)	Sling operation for stress incontinence
46762	Sphincteroplasty, anal, for incontinence, adult; implantation artificial sphincter	Sphincteroplasty, anal
46761	Sphincteroplasty, anal, for incontinence, adult; levator muscle imbrication (Park posterior anal repair)	Sphincteroplasty, anal
46760	Sphincteroplasty, anal, for incontinence, adult; muscle transplant	Sphincteroplasty, anal
46751	Sphincteroplasty, anal, for incontinence or prolapse; child	Sphincteroplasty, anal
46750	Sphincteroplasty, anal, for incontinence or prolapse; adult	Sphincteroplasty, anal
46080	Sphincterotomy, anal, division of sphincter (separate procedure)	Sphincteroplasty, anal
22114	Partial excision of vertebral body, for intrinsic bony lesion, without decompression of spinal cord or nerve root(s), single vertebral segment; lumbar	Spine bony resection
22112	Partial excision of vertebral body, for intrinsic bony lesion, without decompression of spinal cord or nerve root(s), single vertebral segment; thoracic	Spine bony resection
22110	Partial excision of vertebral body, for intrinsic bony lesion, without decompression of spinal cord or nerve root(s), single vertebral segment; cervical	Spine bony resection
22102	Partial excision of posterior vertebral component (eg, spinous process, lamina or facet) for intrinsic bony lesion, single vertebral segment; lumbar	Spine bony resection
22101	Partial excision of posterior vertebral component (eg, spinous process, lamina or facet) for intrinsic bony lesion, single vertebral segment; thoracic	Spine bony resection
22100	Partial excision of posterior vertebral component (eg, spinous process, lamina or facet) for intrinsic bony lesion, single vertebral segment; cervical	Spine bony resection
38120	Laparoscopy, surgical, splenectomy	Splenectomy - laparoscopic
38101	Splenectomy; partial (separate procedure)	Splenectomy - open
38100	Splenectomy; total (separate procedure)	Splenectomy - open
38115	Repair of ruptured spleen (splenorrhaphy) with or without partial splenectomy	Splenorrhaphy
49220	Staging laparotomy for Hodgkins disease or lymphoma (includes splenectomy, needle or open biopsies of both liver lobes, possibly also removal of abdominal nodes, abdominal node and/or bone marrow biopsies, ovarian repositioning)	Staging laparotomy for Hodgkins disease or lymphoma
69661	Stapedectomy or stapedotomy with reestablishment of ossicular continuity, with or without use of foreign material; with footplate drill out	Stapedectomy or stapedotomy
69660	Stapedectomy or stapedotomy with reestablishment of ossicular continuity, with or without use of foreign material;	Stapedectomy or stapedotomy
69650	Stapes mobilization	Stapes mobilization
61751	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion; with computed tomography and/or magnetic resonance guidance	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion
61750	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion;	Stereotactic biopsy, aspiration, or excision, including burr hole(s), for intracranial lesion
61760	Stereotactic implantation of depth electrodes into the cerebrum for long- term seizure monitoring	Stereotactic implantation of depth electrodes into the cerebrum for long-term seizure monitoring
61770	Stereotactic localization, including burr hole(s), with insertion of catheter(s) or probe(s) for placement of radiation source	Stereotactic localization, including burr hole(s), with insertion of catheter(s) or probe(s) for placement of radiation source
21632	Radical resection of sternum; with mediastinal lymphadenectomy	Sternal ostectomy, debridement, resection
21630	Radical resection of sternum;	Sternal ostectomy, debridement, resection

Continued		
Code	Code description	Procedure type
21627	Sternal debridement	Sternal ostectomy, debridement, resection
21620	Ostectomy of sternum, partial	Sternal ostectomy, debridement, resection
67318	Strabismus surgery, any procedure, superior oblique muscle	Strabismus surgery
67316	Strabismus surgery, recession or resection procedure; 2 or more vertical muscles (excluding superior oblique)	Strabismus surgery
67314	Strabismus surgery, recession or resection procedure; 1 vertical muscle (excluding superior oblique)	Strabismus surgery
67312	Strabismus surgery, recession or resection procedure; 2 horizontal muscles	Strabismus surgery
67311	Strabismus surgery, recession or resection procedure; 1 horizontal muscle	Strabismus surgery
24935	Stump elongation, upper extremity	Stump elongation, upper extremity
61531	Subdural implantation of strip electrodes through 1 or more burr or trephine hole(s) for long-term seizure monitoring	Subdural implantation of strip electrodes through 1 or more burr or trephine hole(s) for long-term seizure monitoring
61340	Subtemporal cranial decompression (pseudotumor cerebri, slit ventricle syndrome)	Subtemporal cranial decompression (pseudotumor cerebri, slit ventricle syndrome)
31825	Surgical closure tracheostomy or fistula; with plastic repair	Surgical closure tracheostomy or fistula, with or without plastic repair
31820	Surgical closure tracheostomy or fistula; without plastic repair	Surgical closure tracheostomy or fistula, with or without plastic repair
59830	Treatment of septic abortion, completed surgically	Surgical treatment of abortion
46288	Closure of anal fistula with rectal advancement flap	Surgical treatment of anal fistula
46285	Surgical treatment of anal fistula (fistulectomy/fistulotomy); second stage	Surgical treatment of anal fistula
46280	Surgical treatment of anal fistula (fistulectomy/fistulotomy); transsphincteric, suprasphincteric, extrasphincteric or multiple, including placement of seton, when performed	Surgical treatment of anal fistula
46275	Surgical treatment of anal fistula (fistulectomy/fistulotomy); intersphincteric	Surgical treatment of anal fistula
33548	Surgical ventricular restoration procedure, includes prosthetic patch, when performed (eg, ventricular remodeling, SVR, SAVER, Dor procedures)	Surgical ventricular restoration procedure
38382	Suture and/or ligation of thoracic duct; abdominal approach	Suture and/or ligation of thoracic duct
38380	Suture and/or ligation of thoracic duct; cervical approach	Suture and/or ligation of thoracic duct
38381	Suture and/or ligation of thoracic duct; thoracic approach	Suture and/or ligation of thoracic duct
43410	Suture of esophageal wound or injury; cervical approach	Suture of esophageal wound or injury
43415	Suture of esophageal wound or injury; transthoracic or transabdominal approach	Suture of esophageal wound or injury
47900	Suture of extrahepatic biliary duct for pre-existing injury (separate procedure)	Suture of extrahepatic biliary duct for pre-existing injury
27381	Suture of infrapatellar tendon; secondary reconstruction, including fascial or tendon graft	Suture of infrapatellar tendon
27380	Suture of infrapatellar tendon; primary	Suture of infrapatellar tendon
66682	Suture of iris, ciliary body (separate procedure) with retrieval of suture through small incision (eg, McCannel suture)	Suture of iris, ciliary body
44850	Suture of mesentery (separate procedure)	Suture of mesentery
27386	Suture of quadriceps or hamstring muscle rupture; secondary reconstruction, including fascial or tendon graft	Suture of quadriceps or hamstring muscle rupture
27385	Suture of quadriceps or hamstring muscle rupture; primary	Suture of quadriceps or hamstring muscle rupture
41510	Suture of tongue to lip for micrognathia (Douglas type procedure)	Suture of tongue to lip for micrognathia
31800	Suture of tracheal wound or injury; cervical	Suture of tracheal wound or injury
31805	Suture of tracheal wound or injury; intrathoracic	Suture of tracheal wound or injury
54670	Suture or repair of testicular injury	Suture or repair of testicular injury
64804	Sympathectomy, cervicothoracic	Sympathectomy
64802	Sympathectomy, cervical	Sympathectomy
64823	Sympathectomy; superficial palmar arch	Sympathectomy
64822	Sympathectomy; ulnar artery	Sympathectomy
64821	Sympathectomy; radial artery	Sympathectomy
64820	Sympathectomy; digital arteries, each digit	Sympathectomy
64818	Sympathectomy, lumbar	Sympathectomy

Continued		
Code	Code description	Procedure type
64809	Sympathectomy, thoracolumbar	Sympathectomy
50540	Symphysiotomy for horseshoe kidney with or without pyeloplasty and/or other plastic procedure, unilateral or bilateral (1 operation)	Symphysiotomy for horseshoe kidney
28280	Syndactylization, toes (eg, webbing or Kelikian type procedure)	Syndactylization, toes
28088	Synovectomy, tendon sheath, foot; extensor	Synovectomy, foot
28086	Synovectomy, tendon sheath, foot; flexor	Synovectomy, foot
28072	Synovectomy; metatarsophalangeal joint, each	Synovectomy, foot
28070	Synovectomy; intertarsal or tarsometatarsal joint, each	Synovectomy, foot
26145	Synovectomy, tendon sheath, radical (tenosynovectomy), flexor tendon, palm and/or finger, each tendon	Synovectomy, hand
26140	Synovectomy, proximal interphalangeal joint, including extensor reconstruction, each interphalangeal joint	Synovectomy, hand
26135	Synovectomy, metacarpophalangeal joint including intrinsic release and extensor hood reconstruction, each digit	Synovectomy, hand
26130	Synovectomy, carpometacarpal joint	Synovectomy, hand
25118	Synovectomy, extensor tendon sheath, wrist, single compartment;	Synovectomy, hand
25119	Synovectomy, extensor tendon sheath, wrist, single compartment; with resection of distal ulna	Synovectomy, hand
28035	Release, tarsal tunnel (posterior tibial nerve decompression)	Tarsal tunnel release
67875	Temporary closure of eyelids by suture (eg, Frost suture)	Temporary closure of eyelids by suture
20924	Tendon graft, from a distance (eg, palmaris, toe extensor, plantaris)	Tendon graft harvest
27686	Lengthening or shortening of tendon, leg or ankle; multiple tendons (through same incision), each	Tendon lengthening or shortening, lower extremity
27685	Lengthening or shortening of tendon, leg or ankle; single tendon (separate procedure)	Tendon lengthening or shortening, lower extremity
25280	Lengthening or shortening of flexor or extensor tendon, forearm and/or wrist, single, each tendon	Tendon lengthening or shortening, upper extremity
26479	Shortening of tendon, flexor, hand or finger, each tendon	Tendon lengthening or shortening, upper extremity
26478	Lengthening of tendon, flexor, hand or finger, each tendon	Tendon lengthening or shortening, upper extremity
26477	Shortening of tendon, extensor, hand or finger, each tendon	Tendon lengthening or shortening, upper extremity
26476	Lengthening of tendon, extensor, hand or finger, each tendon	Tendon lengthening or shortening, upper extremity
24305	Tendon lengthening, upper arm or elbow, each tendon	Tendon lengthening or shortening, upper extremity
28210	Repair, tendon, extensor, foot; secondary with free graft, each tendon (includes obtaining graft)	Tendon repair, lower extremity
28208	Repair, tendon, extensor, foot; primary or secondary, each tendon	Tendon repair, lower extremity
28202	Repair, tendon, flexor, foot; secondary with free graft, each tendon (includes obtaining graft)	Tendon repair, lower extremity
28200	Repair, tendon, flexor, foot; primary or secondary, without free graft, each tendon	Tendon repair, lower extremity
27676	Repair, dislocating peroneal tendons; with fibular osteotomy	Tendon repair, lower extremity
27675	Repair, dislocating peroneal tendons; without fibular osteotomy	Tendon repair, lower extremity
27665	Repair, extensor tendon, leg; secondary, with or without graft, each tendon	Tendon repair, lower extremity
27664	Repair, extensor tendon, leg; primary, without graft, each tendon	Tendon repair, lower extremity
27659	Repair, flexor tendon, leg; secondary, with or without graft, each tendon	Tendon repair, lower extremity
27658	Repair, flexor tendon, leg; primary, without graft, each tendon	Tendon repair, lower extremity
25275	Repair, tendon sheath, extensor, forearm and/or wrist, with free graft (includes obtaining graft) (eg, for extensor carpi ulnaris subluxation)	Tendon repair, upper extremity
25274	Repair, tendon or muscle, extensor, forearm and/or wrist; secondary, with free graft (includes obtaining graft), each tendon or muscle	Tendon repair, upper extremity
25272	Repair, tendon or muscle, extensor, forearm and/or wrist; secondary, single, each tendon or muscle	Tendon repair, upper extremity
25270	Repair, tendon or muscle, extensor, forearm and/or wrist; primary, single, each tendon or muscle	Tendon repair, upper extremity
25265	Repair, tendon or muscle, flexor, forearm and/or wrist; secondary, with free graft (includes obtaining graft), each tendon or muscle	Tendon repair, upper extremity

Continued		
Code	Code description	Procedure type
25263	Repair, tendon or muscle, flexor, forearm and/or wrist; secondary, single, each tendon or muscle	Tendon repair, upper extremity
25260	Repair, tendon or muscle, flexor, forearm and/or wrist; primary, single, each tendon or muscle	Tendon repair, upper extremity
26434	Repair of extensor tendon, distal insertion, primary or secondary; with free graft (includes obtaining graft)	Tendon repair, upper extremity
26433	Repair of extensor tendon, distal insertion, primary or secondary; without graft (eg, mallet finger)	Tendon repair, upper extremity
26428	Repair of extensor tendon, central slip, secondary (eg, boutonniere deformity); with free graft (includes obtaining graft), each finger	Tendon repair, upper extremity
26426	Repair of extensor tendon, central slip, secondary (eg, boutonniere deformity); using local tissue(s), including lateral band(s), each finger	Tendon repair, upper extremity
26420	Repair, extensor tendon, finger, primary or secondary; with free graft (includes obtaining graft) each tendon	Tendon repair, upper extremity
26418	Repair, extensor tendon, finger, primary or secondary; without free graft, each tendon	Tendon repair, upper extremity
26412	Repair, extensor tendon, hand, primary or secondary; with free graft (includes obtaining graft), each tendon	Tendon repair, upper extremity
26410	Repair, extensor tendon, hand, primary or secondary; without free graft, each tendon	Tendon repair, upper extremity
24341	Repair, tendon or muscle, upper arm or elbow, each tendon or muscle, primary or secondary (excludes rotator cuff)	Tendon repair, upper extremity
27691	Transfer or transplant of single tendon (with muscle redirection or rerouting); deep (eg, anterior tibial or posterior tibial through interosseous space, flexor digitorum longus, flexor hallucis longus, or peroneal tendon to midfoot or hindfoot)	Tendon transfer, lower extremity
27690	Transfer or transplant of single tendon (with muscle redirection or rerouting); superficial (eg, anterior tibial extensors into midfoot)	Tendon transfer, lower extremity
27397	Transplant or transfer (with muscle redirection or rerouting), thigh (eg, extensor to flexor); multiple tendons	Tendon transfer, lower extremity
27396	Transplant or transfer (with muscle redirection or rerouting), thigh (eg, extensor to flexor); single tendon	Tendon transfer, lower extremity
26496	Opponensplasty; other methods	Tendon transfer, upper extremity
26494	Opponensplasty; hypothenar muscle transfer	Tendon transfer, upper extremity
26492	Opponensplasty; tendon transfer with graft (includes obtaining graft), each tendon	Tendon transfer, upper extremity
26490	Opponensplasty; superficialis tendon transfer type, each tendon	Tendon transfer, upper extremity
25312	Tendon transplantation or transfer, flexor or extensor, forearm and/or wrist, single; with tendon graft(s) (includes obtaining graft), each tendon	Tendon transfer, upper extremity
25310	Tendon transplantation or transfer, flexor or extensor, forearm and/or wrist, single; each tendon	Tendon transfer, upper extremity
26489	Transfer or transplant of tendon, palmar; with free tendon graft (includes obtaining graft), each tendon	Tendon transfer, upper extremity
26485	Transfer or transplant of tendon, palmar; without free tendon graft, each tendon	Tendon transfer, upper extremity
26483	Transfer or transplant of tendon, carpometacarpal area or dorsum of hand; with free tendon graft (includes obtaining graft), each tendon	Tendon transfer, upper extremity
26480	Transfer or transplant of tendon, carpometacarpal area or dorsum of hand; without free graft, each tendon	Tendon transfer, upper extremity
24301	Muscle or tendon transfer; any type, upper arm or elbow, single (excluding 24320-24331)	Tendon transfer, upper extremity
25301	Tenodesis at wrist; extensors of fingers	Tenodesis, hand
25300	Tenodesis at wrist; flexors of fingers	Tenodesis, hand
26474	Tenodesis; of distal joint, each joint	Tenodesis, hand
26471	Tenodesis; of proximal interphalangeal joint, each joint	Tenodesis, hand
28226	Tenolysis, extensor, foot; multiple tendons	Tenolysis, lower extremity
28225	Tenolysis, extensor, foot; single tendon	Tenolysis, lower extremity
28222	Tenolysis, flexor, foot; multiple tendons	Tenolysis, lower extremity
28220	Tenolysis, flexor, foot; single tendon	Tenolysis, lower extremity
27681	Tenolysis, flexor or extensor tendon, leg and/or ankle; multiple tendons (through separate incision[s])	Tenolysis, lower extremity
27680	Tenolysis, flexor or extensor tendon, leg and/or ankle; single, each tendon	Tenolysis, lower extremity

Continued		
Code	Code description	Procedure type
26449	Tenolysis, complex, extensor tendon, finger, including forearm, each tendon	Tenolysis, upper extremity
26445	Tenolysis, extensor tendon, hand OR finger, each tendon	Tenolysis, upper extremity
26442	Tenolysis, flexor tendon; palm AND finger, each tendon	Tenolysis, upper extremity
26440	Tenolysis, flexor tendon; palm OR finger, each tendon	Tenolysis, upper extremity
25295	Tenolysis, flexor or extensor tendon, forearm and/or wrist, single, each tendon	Tenolysis, upper extremity
24332	Tenolysis, triceps	Tenolysis, upper extremity
24320	Tenoplasty, with muscle transfer, with or without free graft, elbow to shoulder, single (Seddon-Brookes type procedure)	Tenoplasty with muscle transfer, elbow to shoulder (Seddon- Brookes type procedure)
27392	Tenotomy - open, hamstring, knee to hip; multiple tendons, bilateral	Tenotomy, lower extremity
27391	Tenotomy - open, hamstring, knee to hip; multiple tendons, 1 leg	Tenotomy, lower extremity
27390	Tenotomy - open, hamstring, knee to hip; single tendon	Tenotomy, lower extremity
28240	Tenotomy, lengthening, or release, abductor hallucis muscle	Tenotomy, lower extremity
28234	Tenotomy - open, extensor, foot or toe, each tendon	Tenotomy, lower extremity
28232	Tenotomy - open, tendon flexor; toe, single tendon (separate procedure)	Tenotomy, lower extremity
28230	Tenotomy - open, tendon flexor; foot, single or multiple tendon(s) (separate procedure)	Tenotomy, lower extremity
27006	Tenotomy, abductors and/or extensor(s) of hip - open (separate procedure)	Tenotomy, lower extremity
27005	Tenotomy, hip flexor(s) - open (separate procedure)	Tenotomy, lower extremity
27003	Tenotomy, adductor, subcutaneous - open, with obturator neurectomy	Tenotomy, lower extremity
27001	Tenotomy, adductor of hip - open	Tenotomy, lower extremity
27000	Tenotomy, adductor of hip, percutaneous (separate procedure)	Tenotomy, lower extremity
28011	Tenotomy, percutaneous, toe; multiple tendons	Tenotomy, lower extremity
28010	Tenotomy, percutaneous, toe; single tendon	Tenotomy, lower extremity
27606	Tenotomy, percutaneous, Achilles tendon (separate procedure); general anesthesia	Tenotomy, lower extremity
27605	Tenotomy, percutaneous, Achilles tendon (separate procedure); local anesthesia	Tenotomy, lower extremity
24310	Tenotomy - open, elbow to shoulder, each tendon	Tenotomy, upper extremity
25290	Tenotomy - open, flexor or extensor tendon, forearm and/or wrist, single, each tendon	Tenotomy, upper extremity
24359	Tenotomy, elbow, lateral or medial (eg, epicondylitis, tennis elbow, golfer's elbow); debridement, soft tissue and/or bone - open with tendon repair or reattachment	Tenotomy, upper extremity
24358	Tenotomy, elbow, lateral or medial (eg, epicondylitis, tennis elbow, golfer's elbow); debridement, soft tissue and/or bone - open	Tenotomy, upper extremity
26460	Tenotomy, extensor, hand or finger - open, each tendon	Tenotomy, upper extremity
26455	Tenotomy, flexor, finger - open, each tendon	Tenotomy, upper extremity
26450	Tenotomy, flexor, palm - open, each tendon	Tenotomy, upper extremity
23406	Tenotomy, shoulder area; multiple tendons through same incision	Tenotomy, upper extremity
23405	Tenotomy, shoulder area; single tendon	Tenotomy, upper extremity
33692	Complete repair tetralogy of Fallot without pulmonary atresia;	Tetralogy of Fallot repair
33694	Complete repair tetralogy of Fallot without pulmonary atresia; with transannular patch	Tetralogy of Fallot repair
33697	Complete repair tetralogy of Fallot with pulmonary atresia including construction of conduit from right ventricle to pulmonary artery and closure of ventricular septal defect	Tetralogy of Fallot repair
32906	Thoracoplasty, Schede type or extrapleural (all stages); with closure of bronchopleural fistula	Thoracoplasty, Schede type or extrapleural
32905	Thoracoplasty, Schede type or extrapleural (all stages);	Thoracoplasty, Schede type or extrapleural
32654	Thoracoscopy, surgical; with control of traumatic hemorrhage	Thoracoscopy, control of hemorrhage
32659	Thoracoscopy, surgical; with creation of pericardial window or partial resection of pericardial sac for drainage	Thoracoscopy, creation of pericardial window
32658	Thoracoscopy, surgical; with removal of clot or foreign body from pericardial sac	Thoracoscopy, evacuation of pericardium
32662	Thoracoscopy, surgical; with excision of mediastinal cyst, tumor, or mass	Thoracoscopy, excision of pericardial or mediastinal mass
32661	Thoracoscopy, surgical; with excision of pericardial cyst, tumor, or mass	Thoracoscopy, excision of pericardial or mediastinal mass
32665	Thoracoscopy, surgical; with esophagomyotomy (Heller type)	Thoracoscopy, with esophagomyotomy
32672	Thoracoscopy, surgical; with resection-plication for emphysematous lung (bullous or non-bullous) for lung volume reduction (LVRS), unilateral includes any pleural procedure, when performed	Thoracoscopy, with partial or complete lung removal

Continued		
Code	Code description	Procedure type
32671	Thoracoscopy, surgical; with removal of lung (pneumonectomy)	Thoracoscopy, with partial or complete lung removal
32670	Thoracoscopy, surgical; with removal of 2 lobes (bilobectomy)	Thoracoscopy, with partial or complete lung removal
32669	Thoracoscopy, surgical; with removal of a single lung segment (segmentectomy)	Thoracoscopy, with partial or complete lung removal
32666	Thoracoscopy, surgical; with therapeutic wedge resection (eg, mass, nodule), initial unilateral	Thoracoscopy, with partial or complete lung removal
32663	Thoracoscopy, surgical; with lobectomy (single lobe)	Thoracoscopy, with partial or complete lung removal
32656	Thoracoscopy, surgical; with parietal pleurectomy	Thoracoscopy, with pleurectomy
32655	Thoracoscopy, surgical; with resection-plication of bullae, includes any pleural procedure when performed	Thoracoscopy, with pleurodesis
32650	Thoracoscopy, surgical; with pleurodesis (eg, mechanical or chemical)	Thoracoscopy, with pleurodesis
32652	Thoracoscopy, surgical; with total pulmonary decortication, including intrapleural pneumonolysis	Thoracoscopy, with pulmonary decortication
32651	Thoracoscopy, surgical; with partial pulmonary decortication	Thoracoscopy, with pulmonary decortication
32664	Thoracoscopy, surgical; with thoracic sympathectomy	Thoracoscopy, with sympathectomy
32673	Thoracoscopy, surgical; with resection of thymus, unilateral or bilateral	Thoracoscopy, with thymectomy
32036	Thoracostomy; with open flap drainage for empyema	Thoracostomy, chest drainage with rib resection or flap
32035	Thoracostomy; with rib resection for empyema	Thoracostomy, chest drainage with rib resection or flap
32120	Thoracotomy; for postoperative complications	Thoracotomy, for postoperative complications
32160	Thoracotomy; with cardiac massage	Thoracotomy, with cardiac massage
32110	Thoracotomy; with control of traumatic hemorrhage and/or repair of lung tear	Thoracotomy, with control of traumatic hemorrhage and/or repair of lung tear
32151	Thoracotomy; with removal of intrapulmonary foreign body	Thoracotomy, with cyst, mass, or foreign body removal
32140	Thoracotomy; with cyst(s) removal, includes pleural procedure when performed	Thoracotomy, with cyst, mass, or foreign body removal
32100	Thoracotomy; with exploration	Thoracotomy, with exploration
32124	Thoracotomy; with open intrapleural pneumonolysis	Thoracotomy, with open intrapleural pneumonolysis
32320	Decortication and parietal pleurectomy	Thoracotomy, with pulmonary decortication
32310	Pleurectomy, parietal (separate procedure)	Thoracotomy, with pulmonary decortication
32225	Decortication, pulmonary (separate procedure); partial	Thoracotomy, with pulmonary decortication
32220	Decortication, pulmonary (separate procedure); total	Thoracotomy, with pulmonary decortication
32150	Thoracotomy; with removal of intrapleural foreign body or fibrin deposit	Thoracotomy, with removal of intrapleural foreign body or fibrin deposit
32141	Thoracotomy; with resection-plication of bullae, includes any pleural procedure when performed	Thoracotomy, with resection-plication of bullae, includes any pleural procedure when performed
34490	Thrombectomy, direct or with catheter; axillary and subclavian vein, by arm incision	Thrombectomy
34471	Thrombectomy, direct or with catheter; subclavian vein, by neck incision	Thrombectomy
34401	Thrombectomy, direct or with catheter; vena cava, iliac vein, by abdominal incision	Thrombectomy
34451	Thrombectomy, direct or with catheter; vena cava, iliac, femoropopliteal vein, by abdominal and leg incision	Thrombectomy
34421	Thrombectomy, direct or with catheter; vena cava, iliac, femoropopliteal vein, by leg incision	Thrombectomy
35876	Thrombectomy of arterial or venous graft (other than hemodialysis graft or fistula); with revision of arterial or venous graft	Thrombectomy of arterial or venous graft
35875	Thrombectomy of arterial or venous graft (other than hemodialysis graft or fistula);	Thrombectomy of arterial or venous graft
61645	Percutaneous arterial transluminal mechanical thrombectomy and/or infusion for thrombolysis, intracranial, any method, including diagnostic angiography, fluoroscopic guidance, catheter placement, and intraprocedural pharmacological thrombolytic injection(s)	Thrombectomy or thrombolysis, percutaneous intracranial
35363	Thromboendarterectomy, including patch graft, if performed; combined aortoiliofemoral	Thromboendarterectomy

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Code	Code description	Procedure type
35361	Thromboendarterectomy, including patch graft, if performed; combined aortoiliac	Thromboendarterectomy
35341	Thromboendarterectomy, including patch graft, if performed; mesenteric, celiac, or renal	Thromboendarterectomy
35331	Thromboendarterectomy, including patch graft, if performed; abdominal aorta	Thromboendarterectomy
35301	Thromboendarterectomy, including patch graft, if performed; carotid, vertebral, subclavian, by neck incision	Thromboendarterectomy
35355	Thromboendarterectomy, including patch graft, if performed; iliofemoral	Thromboendarterectomy
35351	Thromboendarterectomy, including patch graft, if performed; iliac	Thromboendarterectomy
35372	Thromboendarterectomy, including patch graft, if performed; deep (profunda) femoral	Thromboendarterectomy
35371	Thromboendarterectomy, including patch graft, if performed; common femoral	Thromboendarterectomy
35305	Thromboendarterectomy, including patch graft, if performed; tibial or peroneal artery, initial vessel	Thromboendarterectomy
35304	Thromboendarterectomy, including patch graft, if performed; tibioperoneal trunk artery	Thromboendarterectomy
35303	Thromboendarterectomy, including patch graft, if performed; popliteal artery	Thromboendarterectomy
35302	Thromboendarterectomy, including patch graft, if performed; superficial femoral artery	Thromboendarterectomy
35311	Thromboendarterectomy, including patch graft, if performed; subclavian, innominate, by thoracic incision	Thromboendarterectomy
35321	Thromboendarterectomy, including patch graft, if performed; axillary- brachial	Thromboendarterectomy
60520	Thymectomy, partial or total; transcervical approach (separate procedure)	Thymectomy, with or without lymphadenectomy
60521	Thymectomy, partial or total; sternal split or transthoracic approach, without radical mediastinal dissection (separate procedure)	Thymectomy, with or without lymphadenectomy
60522	Thymectomy, partial or total; sternal split or transthoracic approach, with radical mediastinal dissection (separate procedure)	Thymectomy, with or without lymphadenectomy
60254	Thyroidectomy, total or subtotal for malignancy; with radical neck dissection	Thyroidectomy, with or without lymphadenectomy
60252	Thyroidectomy, total or subtotal for malignancy; with limited neck dissection	Thyroidectomy, with or without lymphadenectomy
60270	Thyroidectomy, including substernal thyroid; sternal split or transthoracic approach	Thyroidectomy, with or without lymphadenectomy
60271	Thyroidectomy, including substernal thyroid; cervical approach	Thyroidectomy, with or without lymphadenectomy
60260	Thyroidectomy, removal of all remaining thyroid tissue following previous removal of a portion of thyroid	Thyroidectomy, with or without lymphadenectomy
60240	Thyroidectomy, total or complete	Thyroidectomy, with or without lymphadenectomy
60225	Total thyroid lobectomy, unilateral; with contralateral subtotal lobectomy, including isthmusectomy	Thyroidectomy, with or without lymphadenectomy
60220	Total thyroid lobectomy, unilateral; with or without isthmusectomy	Thyroidectomy, with or without lymphadenectomy
60212	Partial thyroid lobectomy, unilateral; with contralateral subtotal lobectomy, including isthmusectomy	Thyroidectomy, with or without lymphadenectomy
60210	Partial thyroid lobectomy, unilateral; with or without isthmusectomy	Thyroidectomy, with or without lymphadenectomy
37182	Insertion of transvenous intrahepatic portosystemic shunt(s) (TIPS) (includes venous access, hepatic and portal vein catheterization, portography with hemodynamic evaluation, intrahepatic tract formation/dilatation, stent placement and all associated imaging guidance and documentation)	TIPS
11960	Insertion of tissue expander(s) for other than breast, including subsequent expansion	Tissue expander placement, excluding breast
41512	Tongue base suspension, permanent suture technique	Tongue base suspension, permanent suture technique
42836	Adenoidectomy, secondary; age 12 or over	Tonsillectomy and/or adenoidectomy
42835	Adenoidectomy, secondary; younger than age 12	Tonsillectomy and/or adenoidectomy
42831	Adenoidectomy, primary; age 12 or over	Tonsillectomy and/or adenoidectomy
42830	Adenoidectomy, primary; younger than age 12	Tonsillectomy and/or adenoidectomy

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Code	Code description	Procedure type
42826	Tonsillectomy, primary or secondary; age 12 or over	Tonsillectomy and/or adenoidectomy
42825	Tonsillectomy, primary or secondary; younger than age 12	Tonsillectomy and/or adenoidectomy
42821	Tonsillectomy and adenoidectomy; age 12 or over	Tonsillectomy and/or adenoidectomy
42820	Tonsillectomy and adenoidectomy; younger than age 12	Tonsillectomy and/or adenoidectomy
65850	Trabeculectomy ab externo	Trabeculectomy ab externo
57530	Trachelectomy (cervicectomy), amputation of cervix (separate procedure)	Trachelectomy, with or without lymph node dissection
57531	Radical trachelectomy, with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling biopsy, with or without removal of tube(s), with or without removal of ovary(s)	Trachelectomy, with or without lymph node dissection
57720	Trachelorrhaphy, plastic repair of uterine cervix, vaginal approach	Trachelorrhaphy, plastic repair of uterine cervix, vaginal approach
31755	Tracheoplasty; tracheopharyngeal fistulization, each stage	Tracheoplasty
31750	Tracheoplasty; cervical	Tracheoplasty
31760	Tracheoplasty; intrathoracic	Tracheoplasty
31614	Tracheostoma revision; complex, with flap rotation	Tracheostoma revision
31613	Tracheostoma revision; simple, without flap rotation	Tracheostoma revision
31610	Tracheostomy, fenestration procedure with skin flaps	Tracheostomy
31605	Tracheostomy, emergency procedure; cricothyroid membrane	Tracheostomy
31603	Tracheostomy, emergency procedure; transtracheal	Tracheostomy
31601	Tracheostomy, planned (separate procedure); younger than 2 years	Tracheostomy
31600	Tracheostomy, planned (separate procedure);	Tracheostomy
33745	Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac catheterization for congenital cardiac anomalies, and target zone angioplasty, when performed (eg, atrial septum, Fontan fenestration, right ventricular outflow tract, Mustard/Senning/Warden baffles); initial intracardiac shunt	Transcatheter intracardiac shunt creation
33418	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis	Transcatheter mitral valve repair
37204	Transcatheter occlusion or embolization (eg, for tumor destruction, to achieve hemostasis, to occlude a vascular malformation), percutaneous, any method, non-central nervous system, non-head or neck	Transcatheter occlusion or embolization
37207	Transcatheter placement of an intravascular stent(s) (except coronary, carotid, vertebral, iliac and lower extremity arteries) - open; initial vessel	Transcatheter placement of intravascular stent - open
37217	Transcatheter placement of an intravascular stent(s), intrathoracic common carotid artery or innominate artery by retrograde treatment, via open ipsilateral cervical carotid artery exposure, including angioplasty, when performed, and radiological supervision and interpretation	Transcatheter placement of intravascular stent - open
61635	Transcatheter placement of intravascular stent(s), intracranial (eg, atherosclerotic stenosis), including balloon angioplasty, if performed	Transcatheter placement of intravascular stent(s), intracranial
37218	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	Transcatheter placement of intravascular stent - percutaneous
37216	Transcatheter placement of intravascular stent(s), cervical carotid artery, percutaneous; without distal embolic protection	Transcatheter placement of intravascular stent - percutaneous
37215	Transcatheter placement of intravascular stent(s), cervical carotid artery, percutaneous; with distal embolic protection	Transcatheter placement of intravascular stent - percutaneous
37205	Transcatheter placement of an intravascular stent(s) (except coronary, carotid, vertebral, iliac, and lower extremity arteries), percutaneous; initial vessel	Transcatheter placement of intravascular stent - percutaneous
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	Transcatheter placement of intravascular stent - percutaneous or open
37236	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	Transcatheter placement of intravascular stent - percutaneous or open

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Code	Code description	Procedure type
33477	Transcatheter pulmonary valve implantation, percutaneous approach, including pre-stenting of the valve delivery site, when performed	Transcatheter pulmonary valve implantation
47460	Transduodenal sphincterotomy or sphincteroplasty, with or without transduodenal extraction of calculus (separate procedure)	Transduodenal sphincterotomy or sphincteroplasty
33922	Transection of pulmonary artery with cardiopulmonary bypass	Transection of pulmonary artery with cardiopulmonary bypass
50100	Transection or repositioning of aberrant renal vessels (separate procedure)	Transection or repositioning of aberrant renal vessels
27100	Transfer external oblique muscle to greater trochanter including fascial or tendon extension (graft)	Transfer external oblique muscle to greater trochanter including fascial or tendon extension (graft)
27098	Transfer, adductor to ischium	Transfer of adductor to ischium
27111	Transfer iliopsoas; to femoral neck	Transfer of iliopsoas to femur
27110	Transfer iliopsoas; to greater trochanter of femur	Transfer of iliopsoas to femur
26498	Transfer of tendon to restore intrinsic function; all 4 fingers	Transfer of tendon of fingers
26497	Transfer of tendon to restore intrinsic function; ring and small finger	Transfer of tendon of fingers
27400	Transfer, tendon or muscle, hamstrings to femur (eg, Egger's type procedure)	Transfer of tendon or muscle, hamstrings to femur
27105	Transfer paraspinal muscle to hip (includes fascial or tendon extension graft)	Transfer paraspinal muscle to hip (includes fascial or tendon extension graft)
33140	Transmyocardial laser revascularization, by thoracotomy; (separate procedure)	Transmyocardial laser revascularization, by thoracotomy
61576	Transoral approach to skull base, brain stem or upper spinal cord for biopsy, decompression or excision of lesion; requiring splitting of tongue and/or mandible (including tracheostomy)	Transoral approach to skull base, brain stem or upper spinal cord for biopsy
61575	Transoral approach to skull base, brain stem or upper spinal cord for biopsy, decompression or excision of lesion;	Transoral approach to skull base, brain stem or upper spinal cord for biopsy
44136	Intestinal allotransplantation; from living donor	Transplantation of intestines
44135	Intestinal allotransplantation; from cadaver donor	Transplantation of intestines
44133	Donor enterectomy (including cold preservation) - open; partial, from living donor	Transplantation of intestines
50380	Renal autotransplantation, reimplantation of kidney	Transplantation of kidneys
50365	Renal allotransplantation, implantation of graft; with recipient nephrectomy	Transplantation of kidneys
50360	Renal allotransplantation, implantation of graft; without recipient nephrectomy	Transplantation of kidneys
50340	Recipient nephrectomy (separate procedure)	Transplantation of kidneys
50320	Donor nephrectomy (including cold preservation); open, from living donor	Transplantation of kidneys
48554	Transplantation of pancreatic allograft	Transplantation of pancreas
54680	Transplantation of testis(es) to thigh (because of scrotal destruction)	Transplantation of testis(es) to thigh
58825	Transposition, ovary(s)	Transposition of ovary(s)
45000	Transrectal drainage of pelvic abscess	Transrectal drainage of pelvic abscess
61597	Transcondylar (far lateral) approach to posterior cranial fossa, jugular foramen or midline skull base, including occipital condylectomy, mastoidectomy, resection of C1-C3 vertebral body(s), decompression of vertebral artery, with or without mobilization	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa
61596	Transcochlear approach to posterior cranial fossa, jugular foramen or midline skull base, including labyrinthectomy, decompression, with or without mobilization of facial nerve and/or petrous carotid artery	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa
61595	Transtemporal approach to posterior cranial fossa, jugular foramen or midline skull base, including mastoidectomy, decompression of sigmoid sinus and/or facial nerve, with or without mobilization	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa
61598	Transpetrosal approach to posterior cranial fossa, clivus or foramen magnum, including ligation of superior petrosal sinus and/or sigmoid sinus	Transtemporal, transcochlear, transcondylar, transpetrosal approach to posterior cranial fossa, with or without resection of C1-C3
33621	Transthoracic insertion of catheter for stent placement with catheter removal and closure (eg, hybrid approach stage 1)	Transthoracic insertion of catheter for stent placement with catheter removal and closure (eg, hybrid approach stage 1)
50770	Transureteroureterostomy, anastomosis of ureter to contralateral ureter	Transureteroureterostomy

Continued		
Code	Code description	Procedure type
52640	Transurethral resection; of postoperative bladder neck contracture	Transurethral resection of prostate
52630	Transurethral resection; residual or regrowth of obstructive prostate tissue including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrotomy are included)	Transurethral resection of prostate
52601	Transurethral electroresection of prostate, including control of postoperative bleeding, complete (vasectomy, meatotomy, cystourethroscopy, urethral calibration and/or dilation, and internal urethrotomy are included)	Transurethral resection of prostate
51060	Transvesical ureterolithotomy	Transvesical ureterolithotomy
33600	Closure of atrioventricular valve (mitral or tricuspid) by suture or patch	Tricuspid or Mitral valve repair/reconstruction - open
33468	Tricuspid valve repositioning and plication for Ebstein anomaly	Tricuspid or Mitral valve repair/reconstruction - open
33465	Replacement, tricuspid valve, with cardiopulmonary bypass	Tricuspid or Mitral valve repair/reconstruction - open
33464	Valvuloplasty, tricuspid valve; with ring insertion	Tricuspid or Mitral valve repair/reconstruction - open
33463	Valvuloplasty, tricuspid valve; without ring insertion	Tricuspid or Mitral valve repair/reconstruction - open
33460	Valvectomy, tricuspid valve, with cardiopulmonary bypass	Tricuspid or Mitral valve repair/reconstruction - open
33430	Replacement, mitral valve, with cardiopulmonary bypass	Tricuspid or Mitral valve repair/reconstruction - open
33427	Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	Tricuspid or Mitral valve repair/reconstruction - open
33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	Tricuspid or Mitral valve repair/reconstruction - open
33425	Valvuloplasty, mitral valve, with cardiopulmonary bypass;	Tricuspid or Mitral valve repair/reconstruction - open
33422	Valvotomy, mitral valve; open heart, with cardiopulmonary bypass	Tricuspid or Mitral valve repair/reconstruction - open
33420	Valvotomy, mitral valve; closed heart	Tricuspid or Mitral valve repair/reconstruction - open
26055	Tendon sheath incision (eg, for trigger finger)	Trigger finger release
33786	Total repair, truncus arteriosus (Rastelli type operation)	Truncus arteriosus repair
33015	Tube pericardiostomy	Tube pericardiostomy
27418	Anterior tibial tubercleplasty (eg, Maquet type procedure)	Tubercleplasty of anterior tibia
58750	Tubotubal anastomosis	Tubotubal anastomosis
58752	Tubouterine implantation	Tubouterine implantation
23200	Radical resection of tumor; clavicle	Resection of bone tumor
26262	Radical resection of tumor; distal phalanx of finger	Resection of bone tumor
24150	Radical resection of tumor; shaft or distal humerus	Resection of bone tumor
23220	Radical resection of tumor; proximal humerus	Resection of bone tumor
27076	Radical resection of tumor; ilium, including acetabulum, both pubic rami, or ischium and acetabulum	Resection of bone tumor
27075	Radical resection of tumor; wing of ilium, 1 pubic or ischial ramus or symphysis pubis	Resection of bone tumor
27077	Radical resection of tumor; innominate bone, total	Resection of bone tumor
27078	Radical resection of tumor; ischial tuberosity and greater trochanter of femur	Resection of bone tumor
26250	Radical resection of tumor; metacarpal	Resection of bone tumor
26260	Radical resection of tumor; proximal or middle phalanx of finger	Resection of bone tumor
24152	Radical resection of tumor; radial head or neck	Resection of bone tumor
25170	Radical resection of tumor; radius or ulna	Resection of bone tumor
23210	Radical resection of tumor; scapula	Resection of bone tumor
61867	Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), with use of intraoperative microelectrode recording; first array	Twist drill hole for subdural, intracerebral, or ventricular puncture

Continued		
Code	Code description	Procedure type
61863	Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), without use of intraoperative microelectrode recording; first array	Twist drill hole for subdural, intracerebral, or ventricular puncture
61850	Twist drill or burr hole(s) for implantation of neurostimulator electrodes, cortical	Twist drill hole for subdural, intracerebral, or ventricular puncture
61108	Twist drill hole(s) for subdural, intracerebral, or ventricular puncture; for evacuation and/or drainage of subdural hematoma	Twist drill hole for subdural, intracerebral, or ventricular puncture
61107	Twist drill hole(s) for subdural, intracerebral, or ventricular puncture; for implanting ventricular catheter, pressure recording device, or other intracerebral monitoring device	Twist drill hole for subdural, intracerebral, or ventricular puncture
61105	Twist drill hole for subdural or ventricular puncture	Twist drill hole for subdural, intracerebral, or ventricular puncture
69676	Tympanic neurectomy	Tympanic neurectomy
69646	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); radical or complete, with ossicular chain reconstruction	Tympanoplasty
69645	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); radical or complete, without ossicular chain reconstruction	Tympanoplasty
69644	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); with intact or reconstructed canal wall, with ossicular chain reconstruction	Tympanoplasty
69643	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); with intact or reconstructed wall, without ossicular chain reconstruction	Tympanoplasty
69642	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); with ossicular chain reconstruction	Tympanoplasty
69641	Tympanoplasty with mastoidectomy (including canalplasty, middle ear surgery, tympanic membrane repair); without ossicular chain reconstruction	Tympanoplasty
69637	Tympanoplasty with antrotomy or mastoidotomy (including canalplasty, atticotomy, middle ear surgery, and/or tympanic membrane repair); with ossicular chain reconstruction and synthetic prosthesis (eg, partial ossicular replacement prosthesis [PORP], total ossicular replacement prosthesis [TORP])	Tympanoplasty
69636	Tympanoplasty with antrotomy or mastoidotomy (including canalplasty, atticotomy, middle ear surgery, and/or tympanic membrane repair); with ossicular chain reconstruction	Tympanoplasty
69635	Tympanoplasty with antrotomy or mastoidotomy (including canalplasty, atticotomy, middle ear surgery, and/or tympanic membrane repair); without ossicular chain reconstruction	Tympanoplasty
69633	Tympanoplasty without mastoidectomy (including canalplasty, atticotomy and/or middle ear surgery), initial or revision; with ossicular chain reconstruction and synthetic prosthesis (eg, partial ossicular replacement prosthesis [PORP], total ossicular replacement prosthesis [TORP])	Tympanoplasty
69632	Tympanoplasty without mastoidectomy (including canalplasty, atticotomy and/or middle ear surgery), initial or revision; with ossicular chain reconstruction (eg, postfenestration)	Tympanoplasty
69631	Tympanoplasty without mastoidectomy (including canalplasty, atticotomy and/or middle ear surgery), initial or revision; without ossicular chain reconstruction	Tympanoplasty
69436	Tympanostomy (requiring insertion of ventilating tube), general anesthesia	Tympanostomy
49250	Umbilectomy, omphalectomy, excision of umbilicus (separate procedure)	Umbilectomy, omphalectomy, excision of umbilicus
50660	Ureterectomy, total, ectopic ureter, combination abdominal, vaginal and/or perineal approach	Ureterectomy
50650	Ureterectomy, with bladder cuff (separate procedure)	Ureterectomy
50750	Ureterocalycostomy, anastomosis of ureter to renal calyx	Ureterocalycostomy, anastomosis of ureter to renal calyx
50815	Ureterocolon conduit, including intestine anastomosis	Ureterocolon conduit, including intestine anastomosis
50800	Ureteroenterostomy, direct anastomosis of ureter to intestine	Ureteroenterostomy
50820	Ureteroileal conduit (ileal bladder), including intestine anastomosis (Bricker operation)	Ureteroileal conduit (ileal bladder), including intestine anastomosis
50945	Laparoscopy, surgical; ureterolithotomy	Ureterolithotomy - laparoscopic
50630	Ureterolithotomy; lower 1/3 of ureter	Ureterolithotomy - open

Continued		
Code	Code description	Procedure type
50620	Ureterolithotomy; middle 1/3 of ureter	Ureterolithotomy - open
50610	Ureterolithotomy; upper 1/3 of ureter	Ureterolithotomy - open
50725	Ureterolysis for retrocaval ureter, with reanastomosis of upper urinary tract or vena cava	Ureterolysis
50722	Ureterolysis for ovarian vein syndrome	Ureterolysis
50715	Ureterolysis, with or without repositioning of ureter for retroperitoneal fibrosis	Ureterolysis
50948	Laparoscopy, surgical; ureteroneocystostomy without cystoscopy and ureteral stent placement	Ureteroneocystostomy
50947	Laparoscopy, surgical; ureteroneocystostomy with cystoscopy and ureteral stent placement	Ureteroneocystostomy
50785	Ureteroneocystostomy; with vesico-psoas hitch or bladder flap	Ureteroneocystostomy
50783	Ureteroneocystostomy; with extensive ureteral tailoring	Ureteroneocystostomy
50782	Ureteroneocystostomy; anastomosis of duplicated ureter to bladder	Ureteroneocystostomy
50780	Ureteroneocystostomy; anastomosis of single ureter to bladder	Ureteroneocystostomy
50700	Ureteroplasty, plastic operation on ureter (eg, stricture)	Ureteroplasty
50740	Ureteropyelostomy, anastomosis of ureter and renal pelvis	Ureteropyelostomy, anastomosis of ureter and renal pelvis
50900	Ureterorrhaphy, suture of ureter (separate procedure)	Ureterorrhaphy, suture of ureter
50810	Ureterosigmoidostomy, with creation of sigmoid bladder and establishment of abdominal or perineal colostomy, including intestine anastomosis	Ureterosigmoidostomy, with creation of sigmoid bladder and establishment of abdominal or perineal colostomy, including intestine anastomosis
50860	Ureterostomy, transplantation of ureter to skin	Ureterostomy, transplantation of ureter to skin
50605	Ureterotomy for insertion of indwelling stent, all types	Ureterotomy
50760	Ureteroureterostomy	Ureteroureterostomy
53215	Urethrectomy, total, including cystostomy; male	Urethrectomy, total, including cystostomy
53210	Urethrectomy, total, including cystostomy; female	Urethrectomy, total, including cystostomy
53500	Urethrolysis, transvaginal, secondary - open, including cystourethroscopy (eg, postsurgical obstruction, scarring)	Urethrolysis, transvaginal, secondary - open, including cystourethroscopy (eg, postsurgical obstruction, scarring)
53460	Urethromeatoplasty, with partial excision of distal urethral segment (Richardson type procedure)	Urethromeatoplasty
53450	Urethromeatoplasty, with mucosal advancement	Urethromeatoplasty
53431	Urethroplasty with tubularization of posterior urethra and/or lower bladder for incontinence (eg, Tenago, Leadbetter procedure)	Urethroplasty
53430	Urethroplasty, reconstruction of female urethra	Urethroplasty
53425	Urethroplasty, 2-stage reconstruction or repair of prostatic or membranous urethra; second stage	Urethroplasty
53420	Urethroplasty, 2-stage reconstruction or repair of prostatic or membranous urethra; first stage	Urethroplasty
53415	Urethroplasty, transpubic or perineal, 1-stage, for reconstruction or repair of prostatic or membranous urethra	Urethroplasty
53410	Urethroplasty, 1-stage reconstruction of male anterior urethra	Urethroplasty
53405	Urethroplasty; second stage (formation of urethra), including urinary diversion	Urethroplasty
53400	Urethroplasty; first stage, for fistula, diverticulum, or stricture (eg, Johanssen type)	Urethroplasty
53515	Urethrorrhaphy, suture of urethral wound or injury; prostatomembranous	Urethrorrhaphy
53510	Urethrorrhaphy, suture of urethral wound or injury; perineal	Urethrorrhaphy
53505	Urethrorrhaphy, suture of urethral wound or injury; penile	Urethrorrhaphy
53502	Urethrorrhaphy, suture of urethral wound or injury, female	Urethrorrhaphy
53000	Urethrotomy or urethrostomy, external (separate procedure); pendulous urethra	Urethrorrhaphy
50830	Urinary undiversion (eg, taking down of ureteroileal conduit, ureterosigmoidostomy or ureteroenterostomy with ureteroureterostomy or ureteroneocystostomy)	Urinary undiversion
37210	Uterine fibroid embolization (UFE, embolization of the uterine arteries to treat uterine fibroids, leiomyomata), percutaneous approach inclusive of vascular access, vessel selection, embolization, and all radiological supervision and interpretation, intraprocedural roadmapping, and imaging guidance necessary to complete the procedure	Uterine fibroid embolization
58410	Uterine suspension, with or without shortening of round ligaments, with or without shortening of sacrouterine ligaments; with presacral sympathectomy	Uterine suspension

Continued		
Code	Code description	Procedure type
58400	Uterine suspension, with or without shortening of round ligaments, with or without shortening of sacrouterine ligaments; (separate procedure)	Uterine suspension
47802	U-tube hepaticocenterostomy	U-tube hepaticocenterostomy
42140	Uvulectomy, excision of uvula	Uvulectomy, excision of uvula
57111	Vaginectomy, complete removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy)	Vaginectomy
57110	Vaginectomy, complete removal of vaginal wall;	Vaginectomy
57107	Vaginectomy, partial removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy)	Vaginectomy
57106	Vaginectomy, partial removal of vaginal wall;	Vaginectomy
57112	Vaginectomy, complete removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy) with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy)	Vaginectomy
57109	Vaginectomy, partial removal of vaginal wall; with removal of paravaginal tissue (radical vaginectomy) with bilateral total pelvic lymphadenectomy and para-aortic lymph node sampling (biopsy)	Vaginectomy
43641	Vagotomy including pyloroplasty, with or without gastrostomy; parietal cell (highly selective)	Vagotomy including pyloroplasty, with or without gastrostomy
43640	Vagotomy including pyloroplasty, with or without gastrostomy; truncal or selective	Vagotomy including pyloroplasty, with or without gastrostomy
34501	Valvuloplasty, femoral vein	Valvuloplasty of femoral vein
55550	Laparoscopy, surgical, with ligation of spermatic veins for varicocele	Varicocele repair
55540	Excision of varicocele or ligation of spermatic veins for varicocele; with hernia repair	Varicocele repair
55535	Excision of varicocele or ligation of spermatic veins for varicocele; abdominal approach	Varicocele repair
55530	Excision of varicocele or ligation of spermatic veins for varicocele; (separate procedure)	Varicocele repair
37500	Vascular endoscopy, surgical, with ligation of perforator veins, subfascial (SEPS)	Varicose vein ligation
55400	Vasovasostomy, vasovasorrhaphy	Vasovasostomy, vasovasorrhaphy
37181	Venous anastomosis - open; splenorenal, distal (selective decompression of esophago-gastric varices, any technique)	Venous bypass, abdominal - open
37180	Venous anastomosis - open; splenorenal, proximal	Venous bypass, abdominal - open
37160	Venous anastomosis - open; caval-mesenteric	Venous bypass, abdominal - open
37145	Venous anastomosis - open; renoportal	Venous bypass, abdominal - open
37140	Venous anastomosis - open; portocaval	Venous bypass, abdominal - open
34520	Cross-over vein graft to venous system	Venous bypass, cross-over vein graft to venous system
34530	Saphenopopliteal vein anastomosis	Venous bypass, lower extremity
34510	Venous valve transposition, any vein donor	Venous valve transposition, any vein donor
62180	Ventriculocisternostomy (Torkildsen type operation)	Ventriculocisternostomy (Torkildsen type operation)
62201	Ventriculocisternostomy, third ventricle; stereotactic, neuroendoscopic method	Ventriculocisternostomy, third ventricle
62200	Ventriculocisternostomy, third ventricle;	Ventriculocisternostomy, third ventricle
33416	Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis (eg, asymmetric septal hypertrophy)	Ventriculomyotomy (-myectomy) for idiopathic hypertrophic subaortic stenosis
40500	Vermilionectomy (lip shave), with mucosal advancement	Vermilionectomy, with mucosal advancement
51841	Anterior vesicourethropexy, or urethropexy (eg, Marshall-Marchetti-Krantz, Burch); complicated (eg, secondary repair)	Vesicourethropexy or urethropexy, anterior
51840	Anterior vesicourethropexy, or urethropexy (eg, Marshall-Marchetti-Krantz, Burch); simple	Vesicourethropexy or urethropexy, anterior
55650	Vesiculectomy, any approach	Vesiculotomy
55605	Vesiculotomy; complicated	Vesiculotomy
55600	Vesiculotomy;	Vesiculotomy
69950	Vestibular nerve section, transcranial approach	Vestibular nerve section
69915	Vestibular nerve section, translabyrinthine approach	Vestibular nerve section
40845	Vestibuloplasty; complex (including ridge extension, muscle repositioning)	Vestibuloplasty

Continued		
Code	Code description	Procedure type
40844	Vestibuloplasty; entire arch	Vestibuloplasty
40843	Vestibuloplasty; posterior, bilateral	Vestibuloplasty
40842	Vestibuloplasty; posterior, unilateral	Vestibuloplasty
40840	Vestibuloplasty; anterior	Vestibuloplasty
67043	Vitrectomy, mechanical, pars plana approach; with removal of subretinal membrane (eg, choroidal neovascularization), includes, if performed, intraocular tamponade (ie, air, gas or silicone oil) and laser photocoagulation	Vitrectomy
67042	Vitrectomy, mechanical, pars plana approach; with removal of internal limiting membrane of retina (eg, for repair of macular hole, diabetic macular edema), includes, if performed, intraocular tamponade (ie, air, gas or silicone oil)	Vitrectomy
67041	Vitrectomy, mechanical, pars plana approach; with removal of preretinal cellular membrane (eg, macular pucker)	Vitrectomy
67040	Vitrectomy, mechanical, pars plana approach; with endolaser panretinal photocoagulation	Vitrectomy
67039	Vitrectomy, mechanical, pars plana approach; with focal endolaser photocoagulation	Vitrectomy
67036	Vitrectomy, mechanical, pars plana approach;	Vitrectomy
56620	Vulvectomy simple; partial	Vulvectomy
56640	Vulvectomy, radical, complete, with inguinofemoral, iliac, and pelvic lymphadenectomy	Vulvectomy
56637	Vulvectomy, radical, complete; with bilateral inguinofemoral lymphadenectomy	Vulvectomy
56634	Vulvectomy, radical, complete; with unilateral inguinofemoral lymphadenectomy	Vulvectomy
56632	Vulvectomy, radical, partial; with bilateral inguinofemoral lymphadenectomy	Vulvectomy
56631	Vulvectomy, radical, partial; with unilateral inguinofemoral lymphadenectomy	Vulvectomy
56633	Vulvectomy, radical, complete	Vulvectomy
56630	Vulvectomy, radical, partial	Vulvectomy
56625	Vulvectomy simple; complete	Vulvectomy