

Supplement Table S1: Current Procedural Terminology Codes

| CPT Code | Procedure Name | Surgery Type |
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| 51550 | Cystectomy, Partial; Simple | Abdominal |
| 51555 | Cystectomy, Partial; Complicated (Eg, Postradiation, Previous Surgery, Difficult Location) | Abdominal |
| 51565 | Cystectomy, Partial, With Reimplantation Of Ureter(S) Into Bladder (Ureteroneocystostomy) | Abdominal |
| 51570 | Cystectomy, Complete (Separate Procedure) | Abdominal |
| 51575 | Cystectomy, Complete; With Bilateral Pelvic Lymphadenectomy, Including External Iliac, Hypogastric, And Obturator Nodes | Abdominal |
| 51580 | Cystectomy, Complete, With Ureterosigmoidostomy Or Ureterocutaneous Transplantations | Abdominal |
| 51585 | Cystectomy, Complete, With Ureterosigmoidostomy Or Ureterocutaneous Transplantations, With Bilateral Pelvic Lymphadenectomy, Including External Iliac, Hypogastric, And Obturator Nodes | Abdominal |
| 51590 | Cystectomy, Complete, With Ureteroileal Conduit Or Sigmoid Bladder, Including Intestine Anastomosis | Abdominal |
| 51595 | Cystectomy, Complete, With Ureteroileal Conduit Or Sigmoid Bladder, Including Intestine Anastomosis; With Bilateral Pelvic Lymphadenectomy, Including External Iliac, Hypogastric, And Obturator Nodes | Abdominal |
| 51596 | Cystectomy, Complete, With Continent Diversion, Any Open Technique, Using Any Segment Of Small And/Or Large Intestine To Construct Neobladder | Abdominal |
| 50220 | Nephrectomy, Including Partial Ureterectomy, Any Open Approach Including Rib Resection | Abdominal |
| 50225 | Nephrectomy, Including Partial Ureterectomy, Any Open Approach Including Rib Resection; Complicated Because Of Previous Surgery On Same Kidney | Abdominal |
| 50230 | Nephrectomy, Including Partial Ureterectomy, Any Open Approach Including Rib Resection; Radical, With Regional Lymphadenectomy And/Or Vena Caval Thrombectomy | Abdominal |
| 50234 | Nephrectomy With Total Ureterectomy And Bladder Cuff; Through Same Incision | Abdominal |
| 50236 | Nephrectomy With Total Ureterectomy And Bladder Cuff; Through Separate Incision | Abdominal |
| 50240 | Nephrectomy, Partial | Abdominal |
| 50543 | Laparoscopy, Surgical; Partial Nephrectomy | Abdominal |
| 50545 | Laparoscopy, Surgical; Radical Nephrectomy (Includes Removal Of Gerota'S Fascia And Surrounding Fatty Tissue, Removal Of Regional Lymph Nodes, And Adrenalectomy) | Abdominal |
| 50546 | Laparoscopy, Surgical; Nephrectomy, Including Partial Ureterectomy | Abdominal |
| 50548 | Laparoscopy, Surgical; Nephrectomy With Total Ureterectomy | Abdominal |
| 55821 | Prostatectomy (Including Control Of Postoperative Bleeding, Vasectomy, Meatotomy, Urethral Calibration And/Or Dilation, And Internal Urethrotomy); Suprapubic, Subtotal, 1 Or 2 Stages | Abdominal |
| 43279 | Lap, Esophagomyotomy W Fundoplasty | Abdominal |
| 43280 | Lap,Esophagogast Fundoplasty | Abdominal |
| 43281 | Lap, Repair Paraesophageal Hernia, Incl Fundoplasty W/O Mesh | Abdominal |
| 43282 | Lap, Repair Paraesophageal Hernia, Incl Fundoplasty W/ Mesh | Abdominal |
| 43283 | Lap Esophageal Lengthening | Abdominal |
| 43289 | Lap,Esophagus,Other Proc | Abdominal |
| 43332 | Repair Paraesophageal Hiatal Hernia,Laparotomy, Wo Mesh | Abdominal |
| 43333 | Repair Paraesophageal Hiatal Hernia,Laparotomy, W Mesh | Abdominal |
| 43334 | Repair Paraesophageal Hiatal Hernia,Thoracotomy, Wo Mesh | Thoracic |
| 43335 | Repair Paraesophageal Hiatal Hernia,Thoracotomy, W Mesh | Thoracic |

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| 43336 | Repair Paraesophageal Hiatal Hernia,Thoracoabdominal, Wo Mesh | Thoracic/Abdomen |
| 43337 | Repair Paraesophageal Hiatal Hernia,Thoracoabdominal, W Mesh | Thoracic/Abdomen |
| 43338 | Esophagus Lengthening | Abdominal |
| 43340 | Esophagojejunostomy,Abd Apprch | Abdominal |
| 43351 | Surg Opening,Esophagus,Thor Apprch | Abdominal |
| 43360 | Gi Repair Prev Esoph Rmvl | Abdominal |
| 43361 | Gi Recon,Prior Esophagect,W/Colon Interp | Abdominal |
| 43415 | Suture Esophagus Wound,Thor Apprch | Abdominal |
| 43501 | Open Stomach,Reulcer,Suture | Abdominal |
| 43502 | Open Stom,Reold Ge Laceratn | Abdominal |
| 43772 | Lap, Remove Adjust Gast Restrict Device | Abdominal |
| 43774 | Lap, Remove Adjust Gast Restrict Device/Port | Abdominal |
| 43775 | Lap, Gast Restrict Proc, Longitudinal Gastrectomy | Abdominal |
| 43800 | Reconstruction Of Pylorus | Abdominal |
| 43810 | Gastroduodenostomy | Abdominal |
| 43820 | Gastrojejunostomy | Abdominal |
| 43825 | Gastrojejunostomy+Vagotomy | Abdominal |
| 43832 | Gastrostomy,Open,W/Tube Cnstr | Abdominal |
| 43840 | Repair Perf Duod/Gast Ulc-Wnd/Inj | Abdominal |
| 43843 | Gastroplasty,Obesity,Other | Abdominal |
| 43846 | Gastric Bypass,Obese<100Cm Roux-En-Y | Abdominal |
| 43848 | Revision Gastroplasty,Obesity, Non-Gast Restrict Device | Abdominal |
| 43860 | Revise,Gastrojejun Anast,W/O Vagotomy | Abdominal |
| 43870 | Closure Of Gastrostomy,Surgical | Abdominal |
| 43880 | Closure Gastrocolic Fistula | Abdominal |
| 43999 | Stomach Surgery Procedure Unlisted | Abdominal |
| 44005 | Freeing Bowel Adhesion,Enterolysis | Abdominal |
| 44010 | Duodenotomy For Explor,Bx,Fb Remov | Abdominal |
| 44015 | Insert Tube-Bowel,Enteral Aliment | Abdominal |
| 44020 | Enterotomy,Non-Duod,Explor/Bx/Fb Removal | Abdominal |
| 44021 | Enterotomy Decompress Small Bowel | Abdominal |
| 44025 | Incis Colon For Explor,Bx,Fb Rem | Abdominal |
| 44050 | Reduce Volvulus,Intuss,Intern Hernia | Abdominal |
| 44055 | Correct Malrotation Of Bowel | Abdominal |
| 44100 | Biopsy Of Bowel, Peroral | Abdominal |
| 44110 | Excis Bowel Lesion(S),Single Enterotomy | Abdominal |
| 44111 | Excis Bowel Lesion(S),Mult Enterotomies | Abdominal |
| 44120 | Resect Small Intest,Singl Resec/Anas | Abdominal |
| 44121 | Resect Small Intest,Each Addnl | Abdominal |
| 44125 | Resect Small Intest W Enterostomy | Abdominal |
| 44126 | Resect Sm Intest,Cong Atresia,W/O Taper | Abdominal |
| 44127 | Resect Sm Intest,Cong Atresia,W/Taper | Abdominal |
| 44128 | Resect Sm Intest,Cong Atresia,Ea Addl | Abdominal |
| 44130 | Bowel To Bowel Anastomosis | Abdominal |
| 44139 | Mobilize Splenic Flex | Abdominal |
| 44140 | Part Removal Colon W Anastomosis | Abdominal |
| 44141 | Part Removal Colon W Colostomy | Abdominal |
| 44143 | Part Removal Colon W End Colostomy | Abdominal |
| 44144 | Part Removal Colon W Ostomy/Mucofist | Abdominal |
| 44145 | Part Removal Colon W Coloproctostomy | Abdominal |
| 44146 | Part Removal Colon W Coloproc,Colost | Abdominal |
| 44147 | Part Removal Colon,Abd/Transanal App | Abdominal |
| 44150 | Removal Colon/Ileostomy | Abdominal |

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| 44151 | Removal Colon/Ileostomy,Continent | Abdominal |
| 44155 | Removal Colon/Proctectomy/Ileostomy | Abdominal |
| 44157 | Removal Colon/Proctec/ Ileoanal Anast | Abdominal |
| 44158 | Removal Colon/Proctec/Ileoanal Anast Pouch | Abdominal |
| 44160 | Remvl Colon & Term Ileum W/Ileocolostomy | Abdominal |
| 44180 | Lap, Surg Enterolysis | Abdominal |
| 44186 | Lap, Surg Jejunostomy | Abdominal |
| 44187 | Lap, Surg Ileo/Jejuno-Stomy | Abdominal |
| 44188 | Lap, Surg Colostomy | Abdominal |
| 44202 | Lap,Surg,Enterectomy,Resect & Anast | Abdominal |
| 44203 | Lap,Surg,Ea Addl Resect & Anast | Abdominal |
| 44204 | Lap,Surg,Colectomy, Partial, W/Anast | Abdominal |
| 44205 | Lap,Surg,Colectomy,W/Remvl Term Ileum | Abdominal |
| 44206 | Lap,Surg,Colectomy,W/End Colost & Closur | Abdominal |
| 44207 | Lap,Surg,Colectomy,W/Anast | Abdominal |
| 44208 | Lap,Surg,Colectomy,W/Anast,W/Colostomy | Abdominal |
| 44210 | Lap,Surg,Colectomy,Total,W/O Proctectomy | Abdominal |
| 44211 | Lap,Surg,Colectomy,Total,W/Proctectomy | Abdominal |
| 44212 | Lap,Surg,Colect,Tot,W/Proctect,W/Ileost | Abdominal |
| 44213 | Lap, Surg Mobil Splenic Fl Dur Ptl Colectomy | Abdominal |
| 44227 | Lap, Surg Close Enterostomy Resect Anast | Abdominal |
| 44238 | Unlisted Laparoscopy Proc,Intestine | Abdominal |
| 44300 | Placement Enterostomy/Cecostomy Tube Open | Abdominal |
| 44310 | Ileostomy/Jejunostomy,Nontube | Abdominal |
| 44312 | Revision Of Ileostomy,Simple | Abdominal |
| 44314 | Revision Of Ileostomy,Complicated | Abdominal |
| 44320 | Colostomy | Abdominal |
| 44322 | Colostomy,W/Multiple Biopsies | Abdominal |
| 44340 | Revision Of Colostomy,Simple | Abdominal |
| 44345 | Revision Of Colostomy,Complicated | Abdominal |
| 44346 | Revis Colostomy,Reparacolo Hernia | Abdominal |
| 44602 | Suture Sm Intest,Single Perf | Abdominal |
| 44603 | Suture Sm Intest,Multpl Perf | Abdominal |
| 44604 | Suture Lrg Intest | Abdominal |
| 44605 | Suture Lrg Intest W Colostomy | Abdominal |
| 44615 | Intestinal Strictureplasty | Abdominal |
| 44620 | Close Enterostomy | Abdominal |
| 44625 | Close Enterostomy,Resec+Anast | Abdominal |
| 44626 | Close Enterostomy,Resec+Colorec Anas | Abdominal |
| 44640 | Repair Bowel-Skin Fistula | Abdominal |
| 44650 | Repair Bowel-Bowel Fistula | Abdominal |
| 44660 | Repair Bowel-Bladder Fistula | Abdominal |
| 44661 | Rebow-Blad Fist,W/Intest/Blad Resect | Abdominal |
| 44680 | Intestinal Plication | Abdominal |
| 44700 | Exclusion,Small Bowel From Pelvis | Abdominal |
| 44799 | Intestine Surg Procedure Unlisted | Abdominal |
| 44850 | Suture Of Mesentery | Abdominal |
| 44899 | Unlisted Proc,Meckel/Mesentery | Abdominal |
| 44900 | Drain Appendiceal Abscess, Open | Abdominal |
| 44950 | Appendectomy | Abdominal |
| 44955 | Appendectomy,W Othr Proc | Abdominal |
| 44960 | Appendectomy,Rupt Appendix+Abscess | Abdominal |
| 44970 | Lap,Appendectomy | Abdominal |
| 44979 | Lap,Appendix Unlisted Proced | Abdominal |
| 45000 | Drainage Of Pelvic Abscess | Abdominal |

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| 45005 | I&D Rectal Submucosal Abscess | Abdominal |
| 45020 | Drainage Of Deep Rectal Abscess | Abdominal |
| 45100 | Biopsy Of Rectum | Abdominal |
| 45108 | Anorectal Myomectomy | Abdominal |
| 45110 | Proctectomy,Ap Resect+Ostomy | Abdominal |
| 45111 | Proctectomy,Partial | Abdominal |
| 45112 | Proctectomy,Ap Resec,Pull-Thru | Abdominal |
| 45113 | Proctectomy,Part,Ileal Reserv | Abdominal |
| 45114 | Proctectomy,Partial,Anastomosis | Abdominal |
| 45116 | Proctectomy,Part,Anast,Transacr | Abdominal |
| 45119 | Proctectomy,A-P Pullthru W/Reservoir | Abdominal |
| 45120 | Proctectomy,Complt,Pull-Thru,Anast | Abdominal |
| 45121 | Proctectomy,Compl,Colectomy,Bx'S | Abdominal |
| 45123 | Proctectomy,Part,No Anast,Perineal | Abdominal |
| 45126 | Pelvic Exenteration Colorectal Malignancy | Abdominal |
| 45136 | Excis,Ileoanal Reservoir W/Ileostomy | Abdominal |
| 45395 | Lap, Surg Proctectomy W Colostomy | Abdominal |
| 45397 | Lap, Surg Proctectomy W J-Pouch | Abdominal |
| 45400 | Lap, Surg Proctopexy | Abdominal |
| 45402 | Lap, Surg Proctopexy W/Sig Resect | Abdominal |
| 45499 | Unlisted Lap Procedure, Rectum | Abdominal |
| 47120 | Resec Liver,Part Lobectomy | Abdominal |
| 47122 | Resec Liver,Trisegmentectomy | Abdominal |
| 47125 | Resec Liver,Total Lt Lobectomy | Abdominal |
| 47130 | Resec Liver,Total Rt Lobectomy | Abdominal |
| 47140 | Partial Removal, Donor Liver | Abdominal |
| 47142 | Partial Removal, Donor Liver, Right Lobe | Abdominal |
| 47300 | Marsupialize Liver Cyst/Abscess | Abdominal |
| 47350 | Repair Bleed Liver/Suture Wound | Abdominal |
| 47360 | Rebleed Liver/Complex Suture Wnd | Abdominal |
| 47361 | Explor Liver Wound,Extensiv Debride | Abdominal |
| 47362 | Re-Explore Liver Wound,Remv Packing | Abdominal |
| 47370 | Lap,Ablat 1+ Liver Tumor(S),Radiofreq | Abdominal |
| 47371 | Lap,Ablat 1+ Liver Tumor(S),Cryo | Abdominal |
| 47379 | Unlisted Laparoscopic Proc, Liver | Abdominal |
| 47380 | Ablat,Open,1+ Liver Tumor(S),Radiofreq | Abdominal |
| 47382 | Ablat,Open,1+ Liver Tumor(S),Percut Rf | Abdominal |
| 47383 | Ablation 1/> Liver Tumor Perq Cryoablation | Abdominal |
| 47399 | Liver Surgery Procedure Unlisted | Abdominal |
| 47400 | Incision Of Liver Duct/Explor,Drain | Abdominal |
| 47420 | Incis Bile Duct/Expl,Drain,Remv Calc | Abdominal |
| 47460 | Incise Bile Duct Sphincter | Abdominal |
| 47480 | Cholecystostomy,Explor/Remv Calc | Abdominal |
| 47560 | Lap,W/Cholangiography,W/O Bx | Abdominal |
| 47561 | Lap,W/Cholangiography,Biopsy | Abdominal |
| 47562 | Lap,Cholecystectomy | Abdominal |
| 47563 | Lap,Cholecystectomy/Graph | Abdominal |
| 47564 | Lap,Cholecystectomy/Explore | Abdominal |
| 47579 | Lap,Biliary Tract,Unlisted | Abdominal |
| 47600 | Removal Gallbladder | Abdominal |
| 47605 | Remv Gallbladder W Cholangiogram | Abdominal |
| 47610 | Remv Gallbladder,Explor Common Duct | Abdominal |
| 47612 | Remv Gb,W Choledochoenterostomy | Abdominal |
| 47620 | Remv Gb,W Transduod Sphincterotomy | Abdominal |
| 47701 | Bile Duct Revision | Abdominal |

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| 47711 | Excis Bile Duct Tumor,Extrahepatic | Abdominal |
| 47715 | Excision Choledochal Cyst | Abdominal |
| 47720 | Cholecystoenterostomy | Abdominal |
| 47721 | Cholecystoenterostomy+Gastroentero | Abdominal |
| 47740 | Cholecystoenterostomy+Roux-En-Y | Abdominal |
| 47741 | Cholecystoenter+Roux-En-Y+Gastroent | Abdominal |
| 47760 | Anast Extrahep Duct To Gi Tract | Abdominal |
| 47765 | Anast Intrahep Duct To Gi Tract | Abdominal |
| 47780 | Anast,Roux-En-Y,Extrahep To Gi Trct | Abdominal |
| 47785 | Anast,Roux-En-Y,Intrahep To Gi Trct | Abdominal |
| 47800 | Reconstr Extrahep Ducts,Plastic | Abdominal |
| 47801 | Placement, Bile Duct Stent | Abdominal |
| 47802 | U Tube Hepaticoenterostomy | Abdominal |
| 47900 | Suture Extrahep Bile Duct,Injury | Abdominal |
| 47999 | Bile Tract Surg Proc, Unlisted | Abdominal |
| 48000 | Place Drain Abd For Pancreatitis | Abdominal |
| 48001 | Place Drain+Ostomy For Pancreatitis | Abdominal |
| 48100 | Biopsy,Pancreas,Open | Abdominal |
| 48105 | Resect/Debride Acute Necrot Pancreas | Abdominal |
| 48120 | Excision Of Pancreas Lesion | Abdominal |
| 48140 | Part Remv Pancreas,Distal Subtotal | Abdominal |
| 48145 | Part Remv Panc,Dist+Anast Panc-Jeju | Abdominal |
| 48146 | Pancreatectomy,Distal+Preserv Duod | Abdominal |
| 48148 | Excision Ampulla Vater | Abdominal |
| 48150 | Part Remv Panc,Prox+Remv Duod+Anast | Abdominal |
| 48152 | Part Remv Panc,Prox+Remv Duod | Abdominal |
| 48153 | Part Remv Panc,Prox+Part Duod+Anast | Abdominal |
| 48154 | Part Remv Panc,Prox+Part Remv Duod | Abdominal |
| 48155 | Removal Of Pancreas, Total | Abdominal |
| 48510 | Extern Drain Panc Pseudocyst,Open | Abdominal |
| 48511 | Extern Drain Panc Pseudocyst,Percut | Abdominal |
| 48520 | Anast Panc Cyst-Bowel,Direct | Abdominal |
| 48540 | Anast Panc Cyst-Bowel,Roux-En-Y | Abdominal |
| 48545 | Pancreatorrhaphy,Injury | Abdominal |
| 48548 | Anast Pancreas-Jejunum/Side-Side | Abdominal |
| 48556 | Removal Allograft Pancreas | Abdominal |
| 48999 | Pancreas Surgery Proc Unlisted | Abdominal |
| 49000 | Exploratory Of Abdomen | Abdominal |
| 49002 | Reopen Recent Abd Exploratory | Abdominal |
| 49010 | Exploratory Retroperitoneal | Abdominal |
| 49020 | Drain Abd Abscess Open | Abdominal |
| 49040 | Drain Subdiaph/Subphr Abscess,Open | Abdominal |
| 49060 | Drain Retroperitoneal Abscess,Open | Abdominal |
| 49062 | Drain Lymph-Peritoneal Cavity,Open | Abdominal |
| 49255 | Removal Of Omentum | Abdominal |
| 49320 | Lap,Diagnostic Abdomen | Abdominal |
| 49321 | Lap,Dx Surgical Abd W/Biopsy | Abdominal |
| 49322 | Lap,Abdomen,Aspirate Cyst | Abdominal |
| 49323 | Lap,Abdomen,Drain Lymphocele | Abdominal |
| 49324 | Lap Insert Intraperitoneal Catheter | Abdominal |
| 49325 | Lap Revise Intraperitoneal Catheter | Abdominal |
| 49650 | Laparoscopy, Surgical Repair, Initial Inguinal Hernia | Abdominal |
| 49651 | Laparoscopy, Surgical Repair, Recurrent Inguinal Hernia | Abdominal |
| 49652 | Lap, Ventral Hernia Repair,Reducible | Abdominal |
| 49653 | Lap, Ventral Hernia Repair,Incarcerated | Abdominal |

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| 49654 | Lap, Incisional Hernia Repair,Reducible | Abdominal |
| 49655 | Lap, Incisional Hernia Repair,Incarcerated | Abdominal |
| 49656 | Lap, Recurrent Incisional Hernia Repair,Reducible | Abdominal |
| 49657 | Lap, Recurrent Incisional Hernia Repair,Incarcerated | Abdominal |
| 49659 | Lap,Hernia Repair Proc,Unlist | Abdominal |
| 58150 | Total Abdominal Hysterectomy (Corpus And Cervix), With Or Without Removal Of Tube(S), With Or Without Removal Of Ovary(S); | Abdominal |
| 58152 | Total Abdominal Hysterectomy (Corpus And Cervix), With Or Without Removal Of Tube(S), With Or Without Removal Of Ovary(S); With Colpo-Urethrocystopexy (Eg, Marshall-Marchetti-Krantz, Burch) | Abdominal |
| 58180 | Supracervical Abdominal Hysterectomy (Subtotal Hysterectomy), With Or Without Removal Of Tube(S), With Or Without Removal Of Ovary(S) | Abdominal |
| 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) | Abdominal |
| 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) | Abdominal |
| 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 | Abdominal |
| 58541 | Laparoscopy, Surgical, Supracervical Hysterectomy, For Uterus 250 G Or Less; | Abdominal |
| 58542 | Laparoscopy, Surgical, Supracervical Hysterectomy, For Uterus 250 G Or Less; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 58543 | Laparoscopy, Surgical, Supracervical Hysterectomy, For Uterus Greater Than 250 G; | Abdominal |
| 58544 | Laparoscopy, Surgical, Supracervical Hysterectomy, For Uterus Greater Than 250 G; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 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 | Abdominal |
| 58550 | Laparoscopy, Surgical, With Vaginal Hysterectomy, For Uterus 250 G Or Less; | Abdominal |
| 58552 | Laparoscopy, Surgical, With Vaginal Hysterectomy, For Uterus 250 G Or Less; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 58553 | Laparoscopy, Surgical, With Vaginal Hysterectomy, For Uterus Greater Than 250 G; | Abdominal |
| 58554 | Laparoscopy, Surgical, With Vaginal Hysterectomy, For Uterus Greater Than 250 G; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 58570 | Laparoscopy, Surgical, With Total Hysterectomy, For Uterus 250 G Or Less; | Abdominal |
| 58571 | Laparoscopy, Surgical, With Total Hysterectomy, For Uterus 250 G Or Less; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 58572 | Laparoscopy, Surgical, With Total Hysterectomy, For Uterus Greater Than 250 G; | Abdominal |
| 58573 | Laparoscopy, Surgical, With Total Hysterectomy, For Uterus Greater Than 250 G; With Removal Of Tube(S) And/Or Ovary(S) | Abdominal |
| 58545 | Laparoscopy, Surgical, Myomectomy, Excision; 1 To 4 Intramural Myomas With Total Weight Of 250 G Or Less And/Or Removal Of Surface Myomas | Abdominal |
| 58546 | Laparoscopy, Surgical, Myomectomy, Excision; 5 Or More Intramural Myomas And/Or Intramural Myomas With Total Weight Greater Than 250 G | Abdominal |
| 58920 | Wedge Resection Or Bisection Of Ovary, Unilateral Or Bilateral | Abdominal |
| 58940 | Oophorectomy, Partial Or Total, Unilateral Or Bilateral; | Abdominal |

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| 58943 | Oophorectomy, Partial Or Total, Unilateral Or Bilateral; For Ovarian, Tubal Or Primary Peritoneal Malignancy, With Paraaortic And Pelvic Lymph Node Biopsies, Peritoneal Washings, Peritoneal Biopsies, Diaphragmatic Assessments, With Or Without Salpingectomy(S), With Or Without Omentectomy | Abdominal |
| 58953 | Bilateral Salpingo-Oophorectomy With Omentectomy, Total Abdominal Hysterectomy And Radical Dissection For Debulking; | Abdominal |
| 58954 | Bilateral Salpingo-Oophorectomy With Omentectomy, Total Abdominal Hysterectomy And Radical Dissection For Debulking; With Pelvic Lymphadenectomy And Limited Para-Aortic Lymphadenectomy | Abdominal |
| 58956 | Bilateral Salpingo-Oophorectomy With Total Omentectomy, Total Abdominal Hysterectomy For Malignancy | Abdominal |
| +63066 | Code In Addition To 63064 For Each Additional Segment | Spine |
| 63077 | Discectomy, Anterior, With Decompression Of Spinal Cord And/Or Nerve Root(S), Including Osteophytectomy; Thoracic, Single Interspace | Spine |
| +63078 | Code In Addition To 63077 For Each Additional Interspace | Spine |
| 63085 | Vertebral Corpectomy (Vertebral Body Resection), Partial Or Complete, Transthoracic Approach With Decompression Of Spinal Cord And/Or Nerve Root(S); Thoracic, Single Segment | Spine |
| +63086 | Code In Addition To 63085 For Each Additional Segment | Spine |
| 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 | Spine |
| +63088 | Code In Addition To 63087 For Each Additional Segment | Spine |
| 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 | Spine |
| +63091 | Code In Addition To 63090 For Each Additional Segment | Spine |
| 63101 | Vertebral Corpectomy (Vertebral Body Resection), Partial Or Complete, Lateral Extracavitary Approach With Decompression Of Spinal Cord And/Or Nerve Root(S); Thoracic, Single Segment | Spine |
| +63103 | Code In Addition To 63101 For Each Additional Segment | Spine |
| 63030 | Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral Disc; 1 Interspace, Lumbar | Spine |
| 63042 | Laminotomy (Hemilaminectomy), With Decompression Of Nerve Root(S), Including Partial Facetectomy, Foraminotomy And/Or Excision Of Herniated Intervertebral Disc, Reexploration, Single Interspace; Lumbar | Spine |
| +63044 | Code In Addition To 63042 For Each Additional Interspace | Spine |
| 63102 | Vertebral Corpectomy (Vertebral Body Resection), Partial Or Complete, Lateral Extracavitary Approach With Decompression Of Spinal Cord And/Or Nerve Root(S); Lumbar, Single Segment | Spine |
| +63103 | Code In Addition To 63102 For Each Additional Segment | Spine |
| 63056 | Transpedicular Approach With Decompression Of Spinal Cord, Equina And/Or Nerve Root(S), Single Segment; Lumbar | Spine |
| +63057 | Code In Addition To 63056 For Each Additional Segment | Spine |
| 22206 | Osteotomy Of Spine, Posterior Or Posterolateral Approach, 3 Columns, 1 Vertebral Segment; Thoracic | Spine |
| 22207 | Osteotomy Of Spine, Posterior Or Posterolateral Approach, 3 Columns, 1 Vertebral Segment; Lumbar | Spine |
| +22208 | Code In Addition To 22206 Or 22207 For Each Additional Vertebral Segment | Spine |
| 22210 | Osteotomy Of Spine, Posterior Or Posterolateral Approach, 1 Vertebral Segment; Cervical | Spine |

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| 22212 | Osteotomy Of Spine, Posterior Or Posterolateral Approach, 1 Vertebral Segment; Thoracic | Spine |
| 22214 | Osteotomy Of Spine, Posterior Or Posterolateral Approach, 1 Vertebral Segment; Lumbar | Spine |
| +22216 | Code In Addition To 22210, 22212, Or 22214 For Each Additional Vertebral Segment | Spine |
| 22220 | Osteotomy Of Spine, Including Discectomy, Anterior Approach, Single Vertebral Segment; Cervical | Spine |
| 22222 | Osteotomy Of Spine, Including Discectomy, Anterior Approach, Single Vertebral Segment; Thoracic | Spine |
| 22224 | Osteotomy Of Spine, Including Discectomy, Anterior Approach, Single Vertebral Segment; Lumbar | Spine |
| +22226 | Code In Addition To 22220, 22222, Or 22224 For Each Additional Vertebral Segment | Spine |
| 22532 | Arthrodesis, Lateral Extracavitary Technique, Including Minimal Discectomy To Prepare Interspace (Other Than For Decompression); Thoracic | Spine |
| 22533 | Arthrodesis, Lateral Extracavitary Technique, Including Minimal Discectomy To Prepare Interspace (Other Than For Decompression); Lumbar | Spine |
| +22534 | Code In Addition To 22532 Or 22533 For Each Additional Interspace | Spine |
| 22548 | Arthrodesis, Anterior Transoral Or Extraoral Technique, Clivus-C1-C2, With Or Without Excision Of Odontoid Process | Spine |
| 22551 | Arthrodesis, Anterior Interbody, Including Disc Space Preparation, Discectomy, Osteophylectomy And Decompression Or Spinal Cord And/Or Nerve Roots; Cervical Below C2 | Spine |
| +22552 | Code In Addition To 22551 For Each Additional Interspace | Spine |
| 22554 | Arthrodesis, Anterior Interbody Technique, Including Minimal Discectomy To Prepare Interspace (Other Than For Decompression) Cervical Below C2 | Spine |
| 22556 | Arthrodesis, Anterior Interbody Technique, Including Minimal Discectomy To Prepare Interspace (Other Than For Decompression) Thoracic | Spine |
| 22558 | Arthrodesis, Anterior Interbody Technique, Including Minimal Discectomy To Prepare Interspace (Other Than For Decompression) Lumbar | Spine |
| +22585 | Code In Addition To 22554, 22556, Or 22558 For Each Additional Interspace | 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 | Spine |
| 22590 | Arthrodesis, Posterior Technique, Craniocervical (Occiput-C2) | Spine |
| 22595 | Arthrodesis, Posterior Technique, Atlas-Axis (C1-C2) | Spine |
| 22600 | Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Cervical Below C2 Segment | Spine |
| 22610 | Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Thoracic (With Lateral Transverse Technique, When Performed) | Spine |
| 22612 | Arthrodesis, Posterior Or Posterolateral Technique, Single Level; Lumbar (With Lateral Transverse Technique, When Performed) | Spine |
| +22614 | Code In Addition To 22600, 22610, Or 22612 For Each Additional Level | Spine |
| 22630 | Arthrodesis, Posterior Interbody Technique, Including Laminectomy And/Or Discectomy To Prepare Interspace (Other Than For Decompression), Single Interspace; Lumbar | Spine |
| +22632 | Code In Addition To 22630 For Each Additional Interspace | 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 | Spine |
| +22634 | Code In Addition To 22633 For Each Additional Interspace | Spine |
| 22800 | Arthrodesis, Posterior, For Spinal Deformity, With Or Without Case; Up To 6 Vertebral Segments | Spine |

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| 22802 | Arthrodesis, Posterior, For Spinal Deformity, With Or Without Case; 7-12 Vertebral Segments | Spine |
| 22804 | Arthrodesis, Posterior, For Spinal Deformity, With Or Without Case; 13 Or More Vertebral Segments | Spine |
| 22808 | Arthrodesis, Anterior, For Spinal Deformity, With Or Without Case; 2 To 3 Vertebral Segments | Spine |
| 22810 | Arthrodesis, Anterior, For Spinal Deformity, With Or Without Case; 4-7 Vertebral Segments | Spine |
| 22812 | Arthrodesis, Anterior, For Spinal Deformity, With Or Without Case; 8 Or More Vertebral Segments | Spine |
| 22840 | Posterior Non-Segmental Instrumentation Across 1 Interspace | Spine |
| 22841 | Internal Spinal Fixation By Wiring Of Spinous Processes | Spine |
| 22842 | Posterior Segmental Instrumentation; 3 To 6 Vertebral Segments | Spine |
| 22843 | Posterior Segmental Instrumentation; 7 To 12 Vertebral Segments | Spine |
| 22844 | Posterior Segmental Instrumentation; 13 Or More Vertebral Segments | Spine |
| 22845 | Anterior Instrumentation; 2 To 3 Vertebral Segments | Spine |
| 22846 | Anterior Instrumentation; 4 To 7 Vertebral Segments | Spine |
| 22847 | Anterior Instrumentation; 8 Or More Vertebral Segments | Spine |
| 22848 | Pelvic Fixation | Spine |
| 2294 | Reinsertion Of Spinal Fixation Device | Spine |
| 22850 | Removal Of Posterior Nonsegmental Instrumentation | Spine |
| 22851 | Application Of Intervertebral Biomechanical Device(S) | Spine |
| 22852 | Removal Of Posterior Segmental Instrumentation | Spine |
| 22855 | Removal Of Anterior Instrumentation | Spine |
| 22856 | Total Disc Arthroplasty, Anterior Approach, Including Discectomy With End Plate Preparation, Single Interspace, Cervical | Spine |
| 22857 | Total Disc Arthroplasty, Anterior Approach, Including Discectomy To Prpare Interspace, Single Interspace, Lumbar | Spine |
| 22861 | Revision Including Replacement Of Total Disc Arthroplasty, Single Interspace; Cervical | Spine |
| 22862 | Revision Including Replacement Of Total Disc Arthroplasty, Single Interspace; Lumbar | Spine |
| 22864 | Removal Of Total Disc Arthroplasty, Anterior Approach, Single Interspace; Cervical | Spine |
| 22865 | Removal Of Total Disc Arthroplasty, Anterior Approach, Single Interspace; Lumbar | Spine |
| 20930 | Allograft, Morselized, Or Placement Of Osteopromotive Material | Spine |
| 20931 | Allograft, Structural | Spine |
| 20936 | Autograft; Local, Obtained From Same Incision | Spine |
| 20937 | Autograft; Local, Morselived, Through Separate Incision | Spine |
| 20938 | Autograft; Local, Structural, Bicortical Or Tricortical, Through Separate Incision | Spine |
| 27120 | Acetabuloplasty; (Eg, Whitman, Colonna, Haygroves, Or Cup Type) | Total Hip |
| 27122 | Resection, Femoral Head (Eg, Girdlestone Procedure) | Total Hip |
| 27125 | Hemiarthroplasty, Hip, Partial (Eg, Femoral Stem Prosthesis, Bipolar Arthroplasty) | Total Hip |
| 27130 | Arthroplasty, Acetabular And Proximal Femoral Prosthetic Replacement (Total Hip Arthroplasty), With Or Without Autograft Or Allograft | Total Hip |
| 27132 | Conversion Of Previous Hip Surgery To Total Hip Arthroplasty, With Or Without Autograft Or Allograft | Total Hip |
| 27134 | Revision Of Total Hip Arthroplasty; Both Components, With Or Without Autograft Or Allograft | Total Hip |
| 27137 | Acetabular Component Only, With Or Without Autograft Or Allograft | Total Hip |
| 27138 | Femoral Component Only, With Or Without Allograft | Total Hip |
| 27437 | Arthroplasty, Patella; Without Prosthesis | Total Knee |

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| 27438 | With Prosthesis | Total Knee |
| 27440 | Arthroplasty, Knee, Tibial Plateau | Total Knee |
| 27441 | With Debridement And Partial Synovectomy | Total Knee |
| 27442 | Arthroplasty, Femoral Condyles Or Tibial Plateau(S), Knee | Total Knee |
| 27443 | With Debridement And Partial Synovectomy | Total Knee |
| 27445 | Arthroplasty, Knee, Hinge Prosthesis | Total Knee |
| 27446 | Arthroplasty, Knee, Condyle And Plateau; Medial Or Lateral Compartment | Total Knee |
| 27447 | Medial And Lateral Compartments With Or Without Parella Resurfacing (Total Knee Arthroplasty) | Total Knee |
| 19300 | Mastectomy For Gynecomastia | Mastectomy |
| 19301 | Mastectomy, Partial (Eg, Lumpectomy, Tylectomy, Quadrantectomy, Segmentectomy); | Mastectomy |
| 19302 | Mastectomy, Partial (Eg, Lumpectomy, Tylectomy, Quadrantectomy, Segmentectomy); With Axillary Lymphadenectomy | Mastectomy |
| 19303 | Mastectomy, Simple, Complete | Mastectomy |
| 19304 | Mastectomy, Subcutaneous | Mastectomy |
| 19305 | Mastectomy, Radical, Including Pectoral Muscles, Axillary Lymph Nodes | Mastectomy |
| 19306 | Mastectomy, Radical, Including Pectoral Muscles, Axillary And Internal Mammary Lymph Nodes (Urban Type Operation) | Mastectomy |
| 19307 | Mastectomy, Modified Radical, Including Axillary Lymph Nodes, With Or Without Pectoralis Minor Muscle, But Excluding Pectoralis Major Muscle | Mastectomy |
| 32096 | Thoracotomy, With Diagnostic Biopsy(les) Of Lung Infiltrate(S) (Eg, Wedge, Incisional), Unilateral | Thoracic |
| 32097 | Thoracotomy, With Diagnostic Biopsy(les) Of Lung Nodule(S) Or Mass(Es) (Eg, Wedge, Incisional), Unilateral | Thoracic |
| 32098 | Thoracotomy, With Biopsy(les) Of Pleura | Thoracic |
| 32100 | Thoracotomy; With Exploration | Thoracic |
| 32505 | Thoracotomy; With Therapeutic Wedge Resection (Eg, Mass, Nodule), Initial | Thoracic |
| 32506 | Thoracotomy; With Therapeutic Wedge Resection (Eg, Mass Or Nodule), Each Additional Resection, Ipsilateral | Thoracic |
| 32507 | Thoracotomy; With Diagnostic Wedge Resection Followed By Anatomic Lung Resection | Thoracic |
| 32608 | Thoracotomy, With Diagnostic Biopsy(les) Of Lung Nodule(S) Or Mass(Es) (Eg, Wedge, Incisional), Unilateral | Thoracic |
| 32110 | Thoracotomy; With Control Of Traumatic Hemorrhage And/Or Repair Of Lung Tear | Thoracic |
| 32120 | Thoracotomy; For Postoperative Complications | Thoracic |
| 32140 | Thoracotomy; With Cyst(S) Removal, Includes Pleural Procedure When Performed | Thoracic |
| 32141 | Thoracotomy; With Resection-Plication Of Bullae, Includes Any Pleural Procedure When Performed | Thoracic |
| 32150 | Thoracotomy; With Removal Of Intrapleural Foreign Body Or Fibrin Deposit | Thoracic |
| 32151 | Thoracotomy; With Removal Of Intrapulmonary Foreign Body | Thoracic |
| 32160 | Thoracotomy; With Cardiac Massage | Thoracic |
| 32440 | Removal Of Lung, Pneumonectomy; | Thoracic |
| 32442 | Removal Of Lung, Pneumonectomy; With Resection Of Segment Of Trachea Followed By Broncho-Tracheal Anastomosis (Sleeve Pneumonectomy) | Thoracic |
| 32445 | Removal Of Lung, Pneumonectomy; Extrapleural | Thoracic |
| 32480 | Removal Of Lung, Other Than Pneumonectomy; Single Lobe (Lobectomy) | Thoracic |
| 32482 | Removal Of Lung, Other Than Pneumonectomy; 2 Lobes (Bilobectomy) | Thoracic |
| 32484 | Removal Of Lung, Other Than Pneumonectomy; Single Segment (Segmentectomy) | Thoracic |
| 32486 | Removal Of Lung, Other Than Pneumonectomy; With Circumferential Resection Of Segment Of Bronchus Followed By Broncho-Bronchial Anastomosis (Sleeve Lobectomy) | Thoracic |

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| 32488 | Removal Of Lung, Other Than Pneumonectomy; With All Remaining Lung Following Previous Removal Of A Portion Of Lung (Completion Pneumonectomy) | Thoracic |
| 32491 | Removal Of Lung, Other Than Pneumonectomy; With Resectionplication Of Emphysematous Lung(S) (Bullous Or Non-Bullous) For Lung Volume Reduction, Sternal Split Or Transthoracic Approach, Includes Any Pleural Procedure, When Performed | Thoracic |
| 32501 | Resection And Repair Of Portion Of Bronchus (Bronchoplasty) When Performed At Time Of Lobectomy Or Segmentectomy (List Separately In Addition To Code For Primary Procedure) | Thoracic |
| 32505 | Thoracotomy; With Therapeutic Wedge Resection (Eg, Mass, Nodule), Initial | Thoracic |
| 32506 | Thoracotomy; With Therapeutic Wedge Resection (Eg, Mass Or Nodule), Each Additional Resection, Ipsilateral (List Separately In Addition To Code For Primary Procedure) | Thoracic |
| 32507 | Thoracotomy; With Diagnostic Wedge Resection Followed By Anatomic Lung Resection (List Separately In Addition To Code For Primary Procedure) | Thoracic |