

MVP Health Care Inpatient Surgical List

Procedures on the Inpatient Surgical List may be performed in the inpatient setting without prior authorization for all MVP plans. Other procedures that are not on the MVP Inpatient Surgical List are expected to be performed in the outpatient or office setting. For procedures that are not included on this list, prior authorization and proof of medical necessity are required prior to performing the procedure in the inpatient setting.

CPT/HCPCS Code	Short Description
00176	Anesth pharyngeal surgery
00192	Anesth facial bone surgery
00211	Anesth cran surg hemotoma
00214	Anesth skull drainage
00215	Anesth skull repair/fract
00474	Anesth surgery of rib
00524	Anesth chest drainage
00540	Anesth chest surgery
00542	Anesthesia removal pleura
00546	Anesth lung chest wall surg
00560	Anesth heart surg w/o pump
00561	Anesth heart surg <1 yr
00562	Anesth hrt surg w/pmp age
00567	Pyloromyotomy
00580	Anesth heart/lung transplnt
00604	Anesth sitting procedure
00632	Anesth removal of nerves
00792	Anesth hemorr/excise liver
00794	Anesth pancreas removal
00796	Anesth for liver transplant
00844	Anesth pelvis surgery
00846	Anesth hysterectomy
00848	Anesth pelvic organ surg
00864	Anesth removal of bladder
00866	Anesth removal of adrenal
00868	Anesth kidney transplant
00882	Anesth major vein ligation
00904	Anesth perineal surgery
00908	Anesth removal of prostate
00932	Anesth amputation of penis
00934	Anesth penis nodes removal

00936	Anesth penis nodes removal
01140	Anesth amputation at pelvis
01150	Anesth pelvic tumor surgery
01212	Anesth hip disarticulation
01232	Anesth amputation of femur
01234	Anesth radical femur surg
01272	Anesth femoral artery surg
01274	Anesth femoral embolectomy
01404	Anesth amputation at knee
01442	Anesth knee artery surg
01444	Anesth knee artery repair
01502	Anesth lwr leg embolectomy
01634	Anesth shoulder joint amput
01636	Anesth forequarter amput
01652	Anesth shoulder vessel surg
01654	Anesth shoulder vessel surg
01656	Anesth arm-leg vessel surg
01756	Anesth radical humerus surg
01990	Support for organ donor
11004	Debride genitalia & perineum
11005	Debride abdom wall*
11006	Debride genit/per/abdom wall
11008	Remove mesh from abd wall
15756	Free myo/skin flap microvasc
15757	Free skin flap microvasc
15758	Free fascial flap microvasc
15778	Impl absrb msh/prsth dly cls
16036	Escharotomy addl incision
19305	Mast radical
19306	Mast rad urban type
19324	Mammoplasty, augmentation; without prosthetic implant *
19361	Breast reconstr w/lat flap
19364	Breast reconstruction
19367	Breast reconstruction
19368	Breast reconstruction
19369	Breast reconstruction
19396	Preparation of moulage for custom breast implant *
20661	Application of head brace
20664	Application of halo
20670	Removal of implant; superficial*
20680	Removal of implant; deep*

20802	Replantation arm complete
20805	Replant forearm complete
20808	Replantation hand complete
20816	Replantation digit complete
20824	Replantation thumb complete
20827	Replantation thumb complete
20838	Replantation foot complete
20955	Fibula bone graft microvasc
20956	Iliac bone graft microvasc
20957	Mt bone graft microvasc
20962	Other bone graft microvasc
20969	Bone/skin graft microvasc
20970	Bone/skin graft iliac crest
20975	Electrical stimulation to aid bone healing; invasive (operative)*
21026	Excision of bone (eg, for osteomyelitis or bone abscess)*
21045	Extensive jaw surgery
21060	Meniscectomy, partial or complete, temporomandibular joint*
21141	Lefort i-1 piece w/o graft*
21142	Lefort i-2 piece w/o graft*
21143	Lefort i-3/> piece w/o graft*
21145	Lefort i-1 piece w/ graft
21146	Lefort i-2 piece w/ graft
21147	Lefort i-3/> piece w/ graft
21151	Lefort ii w/bone grafts
21154	Lefort iii w/o lefort i
21155	Lefort iii w/ lefort i
21159	Lefort iii w/fhdw/o lefort i
21160	Lefort iii w/fhd w/ lefort i
21179	Reconstruct entire forehead
21180	Reconstruct entire forehead
21182	Reconstruct cranial bone
21183	Reconstruct cranial bone
21184	Reconstruct cranial bone
21188	Reconstruction of midface
21193	Reconstruction of mandibular rami, horizontal, vertical*
21194	Reconst lwr jaw w/graft*
21195	Reconstruction of mandibular rami and/or body*
21196	Reconst lwr jaw w/fixation*
21240	Arthroplasty, temporomandibular joint, with or without autograft*
21242	Arthroplasty, temporomandibular joint, with allograft*
21243	Arthroplasty, temporomandibular joint, replacement*

21244	Reconstruction of mandible, extraoral, with transosteal bone*
21245	Reconstruction of mandible or maxilla*
21246	Reconstruction of mandible or maxilla*
21247	Reconstruct lower jaw bone
21248	Reconstruction of mandible or maxilla, endosteal implant*
21249	Reconstruction of mandible or maxilla, endosteal implant*
21255	Reconstruct lower jaw bone*
21268	Revise eye sockets
21299	Unlisted craniofacial and maxillofacial procedure *
21343	Open tx dprsd front sinus fx
21344	Open tx compl front sinus fx
21348	Opn tx nasomax fx w/graft
21423	Treat mouth roof fracture
21431	Treat craniofacial fracture
21432	Treat craniofacial fracture
21433	Treat craniofacial fracture
21435	Treat craniofacial fracture
21436	Treat craniofacial fracture
21510	Drainage of bone lesion
21602	Exc ch wal tum w/o lymphadec
21603	Exc ch wal tum w/lymphadec
21615	Removal of rib
21616	Removal of rib and nerves
21620	Partial removal of sternum
21627	Sternal debridement
21630	Extensive sternum surgery
21632	Extensive sternum surgery
21705	Revision of neck muscle/rib
21740	Reconstruction of sternum
21742	Reconstructive repair of pectus excavatum or carinatum*
21743	Reconstructive repair of pectus excavatum minimally invasive approach*
21750	Repair of sternum separation
21825	Treat sternum fracture
22010	I&d p-spine c/t/cerv-thor
22015	I&d abscess p-spine l/s/l
22110	Remove part of neck vertebra
22112	Remove part thorax vertebra
22114	Remove part lumbar vertebra
22116	Remove extra spine segment
22206	Incis spine 3 column thorac
22207	Incis spine 3 column lumbar

22208	Incis spine 3 column adl seg
22210	Incis 1 vertebral seg cerv
22212	Incis 1 vertebral seg thorac
22214	Incis 1 vertebral seg lumbar
22216	Incis addl spine segment
22220	Incis w/discectomy cervical
22222	Incis w/discectomy thoracic
22224	Incis w/discectomy lumbar
22226	Revise extra spine segment
22318	Treat odontoid fx w/o graft
22319	Treat odontoid fx w/graft
22325	Treat spine fracture
22326	Treat neck spine fracture
22327	Treat thorax spine fracture
22328	Treat each add spine fx
22532	Lat thorax spine fusion
22533	Lat lumbar spine fusion
22534	Lat thor/lumb addl seg
22548	Neck spine fusion
22556	Thorax spine fusion
22558	Lumbar spine fusion
22585	Arthrodesis, anterior interbody technique, minimal discectomy*
22586	Arthrd pre-sac ntrbdy l5-s1
22590	Spine & skull spinal fusion
22595	Neck spinal fusion
22600	Neck spine fusion
22610	Thorax spine fusion
22612	Arthrodesis, posterior or posterolateral technique, single level; lumbar*
22614	Arthrodesis, posterior or posterolateral technique, single level;*
22630	Lumbar spine fusion*
22632	Spine fusion extra segment*
22633	Arthrodesis, combined posterior or posterolateral technique*
22634	Arthrodesis, combined posterior or posterolateral technique*
22800	Post fusion </6 vert seg
22802	Post fusion 7-12 vert seg
22804	Post fusion 13/> vert seg
22808	Ant fusion 2-3 vert seg
22810	Ant fusion 4-7 vert seg
22812	Ant fusion 8/> vert seg
22818	Kyphectomy 1-2 segments
22819	Kyphectomy 3 or more

22830	Exploration of spinal fusion
22840	Posterior non-segmental instrumentation*
22841	Insert spine fixation device
22842	Posterior segmental instrumentation*
22843	Insert spine fixation device
22844	Insert spine fixation device
22845	Anterior instrumentation; 2 to 3 vertebral segments*
22846	Insert spine fixation device
22847	Insert spine fixation device
22848	Insert pelv fixation device
22849	Reinsert spinal fixation
22850	Remove spine fixation device
22851	Application of intervertebral biomechanical device*
22852	Remove spine fixation device
22855	Removal anterior instrmj
22857	Lumbar artif diskectomy
22860	Tot disc arthrp 2ntrspc lmb
22861	Rev rplcm arthrp 1ntrspc crv
22862	Rev rplcm rthrp 1ntrspc lmb
22864	Rmvl tot arthrp 1ntrspc crv
22865	Rmvl tot arthrp 1ntrspc lmb
23200	Resect clavicle tumor
23210	Resect scapula tumor
23220	Resect prox humerus tumor
23330	Removal of foreign body, shoulder; subcutaneous *
23333	Removal of foreign body, shoulder; deep*
23334	Removal of prosthesis, includes debridement and synovectomy*
23335	Shoulder prosthesis removal
23470	Arthroplasty, glenohumeral joint; hemiarthroplasty*
23472	Reconstruct shoulder joint*
23474	Revis reconst shoulder joint
23900	Amputation of arm & girdle
23920	Amputation at shoulder joint
24360	Arthroplasty, elbow; with membrane (eg, fascial)*
24361	Arthroplasty, elbow; with distal humeral prosthetic replacement*
24362	Arthroplasty, elbow; with implant and fascia lata ligament*
24363	Arthroplasty, elbow; with distal humerus and proximal ulnar prosthetic*
24435	Repair of nonunion or malunion, humerus*
24900	Amputation of upper arm
24920	Amputation of upper arm
24930	Amputation follow-up surgery

24931	Amputate upper arm & implant
24940	Revision of upper arm
25332	Arthroplasty, wrist, with or without interposition, with or without*
25405	Repair of nonunion or malunion, radius OR ulna*
25420	Repair of nonunion or malunion, radius AND ulna*
25441	Arthroplasty with prosthetic replacement; distal radius*
25442	Arthroplasty with prosthetic replacement; distal ulna*
25443	Arthroplasty with prosthetic replacement; scaphoid carpal (navicular)*
25444	Arthroplasty with prosthetic replacement; lunate*
25445	Arthroplasty with prosthetic replacement; trapezium*
25446	Arthroplasty with prosthetic replacement; distal radius and partial*
25447	Arthroplasty, interposition, intercarpal or carpometacarpal joints*
25900	Amputation of forearm
25905	Amputation of forearm
25915	Amputation of forearm
25920	Amputate hand at wrist
25924	Amputation follow-up surgery
25927	Amputation of hand
26551	Great toe-hand transfer
26553	Single transfer toe-hand
26554	Double transfer toe-hand
26556	Toe joint transfer
26992	Drainage of bone lesion
27005	Incision of hip tendon
27025	Incision of hip/thigh fascia
27030	Drainage of hip joint
27036	Excision of hip joint/muscle
27054	Removal of hip joint lining
27070	Part remove hip bone super
27071	Part removal hip bone deep
27075	Resect hip tumor
27076	Resect hip tum incl acetabul
27077	Resect hip tum w/innom bone
27078	Rsect hip tum incl femur
27090	Removal of hip prosthesis
27091	Removal of hip prosthesis
27120	Reconstruction of hip socket
27122	Reconstruction of hip socket
27125	Partial hip replacement
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement*
27132	Total hip arthroplasty

27134	Revise hip joint replacement
27137	Revise hip joint replacement
27138	Revise hip joint replacement
27140	Transplant femur ridge
27146	Incision of hip bone
27147	Revision of hip bone
27151	Incision of hip bones
27156	Revision of hip bones
27158	Revision of pelvis
27161	Incision of neck of femur
27165	Incision/fixation of femur
27170	Repair/graft femur head/neck
27175	Treat slipped epiphysis
27176	Treat slipped epiphysis
27177	Treat slipped epiphysis
27178	Treat slipped epiphysis
27181	Treat slipped epiphysis
27185	Revision of femur epiphysis
27187	Reinforce hip bones
27222	Treat hip socket fracture
27226	Treat hip wall fracture
27227	Treat hip fracture(s)
27228	Treat hip fracture(s)
27232	Treat thigh fracture
27236	Treat thigh fracture
27240	Treat thigh fracture
27244	Treat thigh fracture
27245	Treat thigh fracture
27248	Treat thigh fracture
27253	Treat hip dislocation
27254	Treat hip dislocation
27258	Treat hip dislocation
27259	Treat hip dislocation
27268	Cltx thigh fx w/mnpj
27269	Optx thigh fx
27280	Arthr si jt opn b1grf instrm
27282	Arthrodesis symphysis pubis
27284	Fusion of hip joint
27286	Fusion of hip joint
27290	Amputation of leg at hip
27295	Amputation of leg at hip

27299	Unlisted procedure, pelvis or hip joint*
27303	Drainage of bone lesion
27365	Resect femur/knee tumor
27445	Arthroplasty, knee, hinge prosthesis
27445	Revision of knee joint*
27446	Arthroplasty, knee, condyle and plateau*
27448	Incision of thigh
27450	Incision of thigh
27454	Realignment of thigh bone
27455	Realignment of knee
27457	Realignment of knee
27465	Shortening of thigh bone
27466	Lengthening of thigh bone
27468	Shorten/lengthen thighs
27470	Repair of thigh
27472	Repair/graft of thigh
27486	Revise/replace knee joint
27487	Revise/replace knee joint
27488	Removal of knee prosthesis
27495	Reinforce thigh
27506	Treatment of thigh fracture
27507	Treatment of thigh fracture
27511	Treatment of thigh fracture
27513	Treatment of thigh fracture
27514	Treatment of thigh fracture
27519	Treat thigh fx growth plate
27535	Treat knee fracture
27536	Treat knee fracture
27540	Treat knee fracture
27556	Treat knee dislocation
27557	Treat knee dislocation
27558	Treat knee dislocation
27580	Fusion of knee
27590	Amputate leg at thigh
27591	Amputate leg at thigh
27592	Amputate leg at thigh
27596	Amputation follow-up surgery
27598	Amputate lower leg at knee
27645	Resect tibia tumor
27646	Resect fibula tumor
27702	Reconstruct ankle joint*

27703	Reconstruction ankle joint
27712	Realignment of lower leg
27715	Revision of lower leg
27722	Repair of nonunion or malunion, tibia; with sliding graft*
27724	Repair/graft of tibia
27725	Repair of lower leg
27727	Repair of lower leg
27870	Arthrodesis, ankle, open*
27880	Amputation of lower leg
27881	Amputation of lower leg
27882	Amputation of lower leg
27886	Amputation follow-up surgery
27888	Amputation of foot at ankle
28715	Arthrodesis; triple*
28800	Amputation of midfoot*
28800	Amputation of midfoot
29899	Arthroscopy, ankle (tibiotalar and fibulotalar joints), surgical*
30460	Rhinoplasty for nasal deformity secondary to congenital cleft lip*
30462	Rhinoplasty for nasal deformity secondary to congenital cleft lip
31070	Sinusotomy frontal; external, simple*
31075	Sinusotomy frontal; transorbital, unilateral*
31080	Sinusotomy frontal; obliterative without osteoplastic flap, brow incision*
31081	Sinusotomy frontal; obliterative, without osteoplastic flap*
31084	Sinusotomy frontal; obliterative, with osteoplastic flap, brow incision*
31085	Sinusotomy frontal; obliterative, with osteoplastic flap, coronal incision*
31086	Sinusotomy frontal; nonobliterative, with osteoplastic flap*
31087	Sinusotomy frontal; nonobliterative, with osteoplastic flap*
31225	Removal of upper jaw
31230	Removal of upper jaw
31290	Nasal/sinus endoscopy surg
31291	Nasal/sinus endoscopy surg
31360	Removal of larynx
31365	Removal of larynx
31367	Partial removal of larynx
31368	Partial removal of larynx
31370	Partial removal of larynx
31375	Partial removal of larynx
31380	Partial removal of larynx
31382	Partial removal of larynx
31390	Removal of larynx & pharynx
31395	Reconstruct larynx & pharynx

31725	Clearance of airways
31760	Repair of windpipe
31766	Reconstruction of windpipe
31770	Repair/graft of bronchus
31775	Reconstruct bronchus
31780	Reconstruct windpipe
31781	Reconstruct windpipe
31786	Remove windpipe lesion
31800	Repair of windpipe injury
31805	Repair of windpipe injury
32035	Thoracostomy w/rib resection
32036	Thoracostomy w/flap drainage
32096	Open wedge/bx lung infiltr
32097	Open wedge/bx lung nodule
32098	Open biopsy of lung pleura
32100	Exploration of chest
32110	Explore/repair chest
32120	Re-exploration of chest
32124	Explore chest free adhesions
32140	Removal of lung lesion(s)
32141	Remove/treat lung lesions
32150	Removal of lung lesion(s)
32151	Remove lung foreign body
32160	Open chest heart massage
32200	Drain open lung lesion
32215	Treat chest lining
32220	Release of lung
32225	Partial release of lung
32310	Removal of chest lining
32320	Free/remove chest lining
32440	Remove lung pneumonectomy
32442	Sleeve pneumonectomy
32445	Removal of lung extrapleural
32480	Partial removal of lung
32482	Bilobectomy
32484	Segmentectomy*
32486	Sleeve lobectomy
32488	Completion pneumonectomy
32491	Lung volume reduction
32501	Repair bronchus add-on
32503	Resect apical lung tumor

32504	Resect apical lung tum/chest
32505	Wedge resect of lung initial
32506	Wedge resect of lung add-on
32507	Wedge resect of lung diag
32540	Removal of lung lesion
32601	Thoracoscopy, diagnostic (separate procedure); lungs*
32604	Thoracoscopy, diagnostic (separate procedure)*
32606	Thoracoscopy, diagnostic (separate procedure); mediastinal space*
32607	Thoracoscopy; with diagnostic biopsy(ies) of lung infiltrate(s)*
32608	Thoracoscopy; with diagnostic biopsy(ies) of lung nodule(s) or mass*
32609	Thoracoscopy; with biopsy(ies) of pleura*
32650	Thoracoscopy w/pleurodesis
32651	Thoracoscopy remove cortex
32652	Thoracoscopy rem totl cortex
32653	Thoracoscopy remov fb/fibrin
32654	Thoracoscopy contrl bleeding
32655	Thoracoscopy resect bullae
32656	Thoracoscopy w/pleurectomy
32658	Thoracoscopy w/sac fb remove
32659	Thoracoscopy w/sac drainage
32661	Thoracoscopy w/pericard exc
32662	Thoracoscopy w/mediast exc
32663	Thoracoscopy w/lobectomy
32664	Thoracoscopy w/ th nrv exc
32665	Thoracoscop w/esoph musc exc
32666	Thoracoscopy w/wedge resect
32667	Thoracoscopy w/w resect addl
32668	Thoracoscopy w/w resect diag
32669	Thoracoscopy remove segment
32670	Thoracoscopy bilobectomy
32671	Thoracoscopy pneumonectomy
32672	Thoracoscopy for lvrs
32673	Thoracoscopy w/thymus resect
32674	Thoracoscopy lymph node exc
32800	Repair lung hernia
32810	Close chest after drainage
32815	Close bronchial fistula
32820	Reconstruct injured chest
32850	Donor pneumonectomy
32851	Lung transplant single
32852	Lung transplant with bypass

32853	Lung transplant double
32854	Lung transplant with bypass
32855	Prepare donor lung single
32856	Prepare donor lung double
32900	Removal of rib(s)
32905	Revise & repair chest wall
32906	Revise & repair chest wall
32940	Revision of lung
32997	Total lung lavage
33017	Pracd drg 6yr+ w/o cgen car
33018	Pracd drg 0-5yr or w/anomly
33019	Perq pracd drg insj cath ct
33020	Incision of heart sac
33025	Incision of heart sac
33030	Partial removal of heart sac
33031	Partial removal of heart sac
33050	Resect heart sac lesion
33120	Removal of heart lesion
33130	Removal of heart lesion
33140	Heart revascularize (tmr)
33141	Heart tmr w/other procedure
33202	Insert epicard eltrd open
33203	Insert epicard eltrd endo
33216	Insertion of a single transvenous electrode, permanent pacemaker*
33217	Insertion of 2 transvenous electrodes, permanent pacemaker*
33224	Insertion of pacing electrode, cardiac venous system*
33225	Insertion of pacing electrode, cardiac venous system*
33230	Insertion of implantable defibrillator pulse generator only*
33231	Insertion of implantable defibrillator pulse generator only*
33236	Remove electrode/thoracotomy
33237	Remove electrode/thoracotomy
33238	Remove electrode/thoracotomy
33240	Insertion of implantable defibrillator pulse generator only*
33243	Remove eltrd/thoracotomy
33249	Insertion or replacement of permanent implantable defibrillator system*
33250	Ablate heart dysrhythm focus
33251	Ablate heart dysrhythm focus
33254	Ablate atria lmtd
33255	Ablate atria w/o bypass ext
33256	Ablate atria w/bypass exten
33257	Ablate atria lmtd add-on

33258	Ablate atria x10sv add-on
33259	Ablate atria w/bypass add-on
33261	Ablate heart dysrhythm focus
33265	Ablate atria lmtd endo
33266	Ablate atria x10sv endo
33267	Excl laa open any method
33268	Excl laa opn oth px any meth
33269	Excl laa thrscp any method
33300	Repair of heart wound
33305	Repair of heart wound
33310	Exploratory heart surgery
33315	Exploratory heart surgery
33320	Repair major blood vessel(s)
33321	Repair major vessel
33322	Repair major blood vessel(s)
33330	Insert major vessel graft
33335	Insert major vessel graft
33340	Percutaneous transcatheter closure of the left atrial appendage*
33340	Perq clsr tcath l atr apndge*
33361	Replace aortic valve perq
33362	Replace aortic valve open
33363	Replace aortic valve open
33364	Replace aortic valve open
33365	Replace aortic valve open
33366	Trcath replace aortic valve
33367	Replace aortic valve w/byp
33368	Replace aortic valve w/byp
33369	Replace aortic valve w/byp
33390	Valvuloplasty aortic valve
33391	Valvuloplasty aortic valve
33404	Prepare heart-aorta conduit
33405	Replacement aortic valve opn
33406	Replacement aortic valve opn
33410	Replacement aortic valve opn
33411	Replacement of aortic valve
33412	Replacement of aortic valve
33413	Replacement of aortic valve
33414	Repair of aortic valve
33415	Revision subvalvular tissue
33416	Revise ventricle muscle
33417	Repair of aortic valve

33418	Repair tcat mitral valve
33420	Revision of mitral valve
33422	Revision of mitral valve
33425	Repair of mitral valve
33426	Repair of mitral valve
33427	Repair of mitral valve
33430	Replacement of mitral valve
33440	Rplcmt a-valve tlcj autol pv
33460	Revision of tricuspid valve
33463	Valvuloplasty tricuspid
33464	Valvuloplasty tricuspid
33465	Replace tricuspid valve
33468	Revision of tricuspid valve
33470	Revision of pulmonary valve*
33471	Valvotomy pulmonary valve
33474	Revision of pulmonary valve
33475	Replacement pulmonary valve
33476	Revision of heart chamber
33477	Implant tcat pulm vlv perq
33478	Revision of heart chamber
33496	Repair prosth valve clot
33500	Repair heart vessel fistula
33501	Repair heart vessel fistula
33502	Coronary artery correction
33503	Coronary artery graft
33504	Coronary artery graft
33505	Repair artery w/tunnel
33506	Repair artery translocation
33507	Repair art intramural
33509	Ndsc hrv uxtr art 1 sgm cab
33510	Cabg vein single
33511	Cabg vein two
33512	Cabg vein three
33513	Cabg vein four
33514	Cabg vein five
33516	Cabg vein six or more
33517	Cabg artery-vein single
33518	Cabg artery-vein two
33519	Cabg artery-vein three
33521	Cabg artery-vein four
33522	Cabg artery-vein five

33523	Cabg art-vein six or more
33530	Coronary artery bypass/reop
33533	Cabg arterial single
33534	Cabg arterial two
33535	Cabg arterial three
33536	Cabg arterial four or more
33542	Removal of heart lesion
33545	Repair of heart damage
33548	Restore/remodel ventricle
33572	Open coronary endarterectomy
33600	Closure of valve
33602	Closure of valve
33606	Anastomosis/artery-aorta
33608	Repair anomaly w/conduit
33610	Repair by enlargement
33611	Repair double ventricle
33612	Repair double ventricle
33615	Repair modified fontan
33617	Repair single ventricle
33619	Repair single ventricle
33620	Apply r&l pulm art bands
33621	Transthor cath for stent
33622	Redo compl cardiac anomaly
33641	Repair heart septum defect
33645	Revision of heart veins
33647	Repair heart septum defects
33660	Repair of heart defects
33665	Repair of heart defects
33670	Repair of heart chambers
33675	Close mult vsd
33676	Close mult vsd w/resection
33677	Cl mult vsd w/rem pul band
33681	Repair heart septum defect
33684	Repair heart septum defect
33688	Repair heart septum defect
33690	Reinforce pulmonary artery
33692	Repair of heart defects
33694	Repair of heart defects
33697	Repair of heart defects
33702	Repair of heart defects
33710	Repair of heart defects

33720	Repair of heart defect
33722	Repair of heart defect*
33724	Repair venous anomaly
33726	Repair pul venous stenosis
33730	Repair heart-vein defect(s)
33732	Repair heart-vein defect
33735	Revision of heart chamber
33736	Revision of heart chamber
33737	Revision of heart chamber
33741	Tas congenital car anomal
33745	Tis cgen car anomal 1st shnt
33746	Tis cgen car anomal ea addl
33750	Major vessel shunt
33755	Major vessel shunt
33762	Major vessel shunt
33764	Major vessel shunt & graft
33766	Major vessel shunt
33767	Major vessel shunt
33768	Cavopulmonary shunting
33770	Repair great vessels defect
33771	Repair great vessels defect
33774	Repair great vessels defect
33775	Repair great vessels defect
33776	Repair great vessels defect
33777	Repair great vessels defect
33778	Repair great vessels defect
33779	Repair great vessels defect
33780	Repair great vessels defect
33781	Repair great vessels defect
33782	Nikaidoh proc
33783	Nikaidoh proc w/ostia implt
33786	Repair arterial trunk
33788	Revision of pulmonary artery
33800	Aortic suspension
33802	Repair vessel defect
33803	Repair vessel defect
33813	Repair septal defect
33814	Repair septal defect
33820	Revise major vessel
33822	Revise major vessel
33824	Revise major vessel

33840	Remove aorta constriction
33845	Remove aorta constriction
33851	Remove aorta constriction
33852	Repair septal defect
33853	Repair septal defect
33858	As-aort grf f/aortic dsj
33859	As-aort grf f/ds oth/thn dsj
33863	Ascending aortic graft
33864	Ascending aortic graft
33871	Transvrs a-arch grf hypthrm
33875	Thoracic aortic graft
33877	Thoracoabdominal graft
33880	Endovasc taa repr incl subcl
33881	Endovasc taa repr w/o subcl
33883	Insert endovasc prosth taa
33884	Endovasc prosth taa add-on
33886	Endovasc prosth delayed
33889	Artery transpose/endovas taa
33891	Car-car bp grft/endovas taa
33894	Evasc st rpr thrc/aa acrs br
33895	Evasc st rpr thrc/aa x crsg
33897	Perq trlum angp nt/recr coa
33910	Remove lung artery emboli
33915	Remove lung artery emboli
33916	Surgery of great vessel
33917	Repair pulmonary artery
33920	Repair pulmonary atresia
33922	Transect pulmonary artery
33924	Remove pulmonary shunt
33925	Rpr pul art unifocal w/o cpb
33926	Repr pul art unifocal w/cpb
33927	Impltj tot rplcmt hrt sys
33928	Rmvl & rplcmt tot hrt sys
33929	Rmvl rplcmt hrt sys f/trnspl
33930	Removal of donor heart/lung
33933	Prepare donor heart/lung
33935	Transplantation heart/lung
33940	Removal of donor heart
33944	Prepare donor heart
33945	Transplantation of heart
33946	Ecmo/ecls initiation venous

33947	Ecmo/ecls initiation artery
33948	Ecmo/ecls daily mgmt-venous
33949	Ecmo/ecls daily mgmt artery
33951	Ecmo/ecls insj prph cannula
33952	Ecmo/ecls insj prph cannula
33953	Ecmo/ecls insj prph cannula
33954	Ecmo/ecls insj prph cannula
33955	Ecmo/ecls insj ctr cannula
33956	Ecmo/ecls insj ctr cannula
33957	Ecmo/ecls repos perph cnula
33958	Ecmo/ecls repos perph cnula
33959	Ecmo/ecls repos perph cnula
33962	Ecmo/ecls repos perph cnula
33963	Ecmo/ecls repos perph cnula
33964	Ecmo/ecls repos perph cnula
33965	Ecmo/ecls rmlv perph cannula
33966	Ecmo/ecls rmlv prph cannula
33967	Insert i-aort percut device
33968	Remove aortic assist device
33969	Ecmo/ecls rmlv perph cannula
33970	Aortic circulation assist
33971	Aortic circulation assist
33973	Insert balloon device
33974	Remove intra-aortic balloon
33975	Implant ventricular device
33976	Implant ventricular device
33977	Remove ventricular device
33978	Remove ventricular device
33979	Insert intracorporeal device
33980	Remove intracorporeal device
33981	Replace vad pump ext
33982	Replace vad intra w/o bp
33983	Replace vad intra w/bp
33984	Ecmo/ecls rmlv prph cannula
33985	Ecmo/ecls rmlv ctr cannula
33986	Ecmo/ecls rmlv ctr cannula
33987	Artery expos/graft artery
33988	Insertion of left heart vent
33989	Removal of left heart vent
33990	Insert vad artery access
33991	Insert vad art&vein access

33992	Remove vad different session
33993	Reposition vad diff session
33995	Insj perq vad r hrt venous
33997	Rmvl perq right heart vad
34001	Removal of artery clot
34051	Removal of artery clot
34151	Removal of artery clot
34401	Removal of vein clot
34451	Removal of vein clot
34502	Repair of anomalous coronary artery*
34502	Reconstruct vena cava
34701	Evasc rpr a-ao ndgft
34702	Evasc rpr a-ao ndgft rpt
34703	Evasc rpr a-unilac ndgft
34704	Evasc rpr a-unilac ndgft rpt
34705	Evac rpr a-biiliac ndgft
34706	Evasc rpr a-biiliac rpt
34707	Evasc rpr ilio-iliac ndgft
34708	Evasc rpr ilio-iliac rpt
34709	Plmt xtn prosth evasc rpr
34710	Dlyd plmt xtn prosth 1st vsl
34711	Dlyd plmt xtn prosth ea addl
34712	Tcat dlvr enhncd fixj dev
34717	Evasc rpr a-iliac ndgft
34718	Evasc rpr n/a a-iliac ndgft
34808	Endovas iliac a device addon
34812	Opn fem art expos
34813	Femoral endovas graft add-on
34820	Opn iliac art expos
34830	Open aortic tube prosth repr
34831	Open aortoiliac prosth repr
34832	Open aortofemor prosth repr
34833	Opn ilac art expos cndt crtj
34834	Opn brach art expos
34841	Endovasc visc aorta 1 graft
34842	Endovasc visc aorta 2 graft
34843	Endovasc visc aorta 3 graft
34844	Endovasc visc aorta 4 graft
34845	Visc & infraren abd 1 prosth
34846	Visc & infraren abd 2 prosth
34847	Visc & infraren abd 3 prosth

34848	Visc & infraren abd 4+ prost
35001	Repair defect of artery
35002	Repair artery rupture neck
35005	Repair defect of artery
35013	Repair artery rupture arm
35021	Repair defect of artery
35022	Repair artery rupture chest
35081	Repair defect of artery
35082	Repair artery rupture aorta
35091	Repair defect of artery
35092	Repair artery rupture aorta
35102	Repair defect of artery
35103	Repair artery rupture aorta
35111	Repair defect of artery
35112	Repair artery rupture spleen
35121	Repair defect of artery
35122	Repair artery rupture belly
35131	Repair defect of artery
35132	Repair artery rupture groin
35141	Repair defect of artery
35142	Repair artery rupture thigh
35151	Repair defect of artery
35152	Repair ruptd popliteal art
35182	Repair blood vessel lesion
35189	Repair blood vessel lesion
35211	Repair blood vessel lesion
35216	Repair blood vessel lesion
35221	Repair blood vessel lesion
35241	Repair blood vessel lesion
35246	Repair blood vessel lesion
35251	Repair blood vessel lesion
35271	Repair blood vessel lesion
35276	Repair blood vessel lesion
35281	Repair blood vessel lesion
35301	Rechanneling of artery
35302	Rechanneling of artery
35303	Rechanneling of artery
35304	Rechanneling of artery
35305	Rechanneling of artery
35306	Rechanneling of artery
35311	Rechanneling of artery

35331	Rechanneling of artery
35341	Rechanneling of artery
35351	Rechanneling of artery
35355	Rechanneling of artery
35361	Rechanneling of artery
35363	Rechanneling of artery
35371	Rechanneling of artery
35372	Rechanneling of artery
35390	Reoperation carotid add-on
35400	Angioscopy
35501	Art byp grft ipsilat carotid
35506	Art byp grft subclav-carotid
35508	Art byp grft carotid-vertbrl
35509	Art byp grft contral carotid
35510	Art byp grft carotid-brchial
35511	Art byp grft subclav-subclav
35512	Art byp grft subclav-brchial
35515	Art byp grft subclav-vertbrl
35516	Art byp grft subclav-axillary
35518	Art byp grft axillary-axilry
35521	Art byp grft axill-femoral
35522	Art byp grft axill-brachial
35523	Art byp grft brchl-ulnr-rdl
35525	Art byp grft brachial-brchl
35526	Art byp grft aor/carot/innom
35531	Art byp grft aorcel/aormesen
35533	Art byp grft axill/fem/fem
35535	Art byp grft hepatorenal
35536	Art byp grft splenorenal
35537	Art byp grft aortoiliac
35538	Art byp grft aortobi-iliac
35539	Art byp grft aortofemoral
35540	Art byp grft aortbifemoral
35556	Art byp grft fem-popliteal
35558	Art byp grft fem-femoral
35560	Art byp grft aortorenal
35563	Art byp grft ilioiliac
35565	Art byp grft iliofemoral
35566	Art byp fem-ant-post tib/prl
35570	Art byp tibial-tib/peroneal
35571	Art byp pop-tibl-prl-other

35583	Vein byp grft fem-popliteal
35585	Vein byp fem-tibial peroneal
35587	Vein byp pop-tibl peroneal
35600	Harvest art for cabg add-on
35601	Art byp common ipsi carotid
35606	Art byp carotid-subclavian
35612	Art byp subclav-subclavian
35616	Art byp subclav-axillary
35621	Art byp axillary-femoral
35623	Art byp axillary-pop-tibial
35626	Art byp aorsubcl/carot/innom
35631	Art byp aor-celiac-msn-renal
35632	Art byp ilio-celiac
35633	Art byp ilio-mesenteric
35634	Art byp iliorenal
35636	Art byp spenorenal
35637	Art byp aortoiliac
35638	Art byp aortobi-iliac
35642	Art byp carotid-vertebral
35645	Art byp subclav-vertebrl
35646	Art byp aortobifemoral
35647	Art byp aortofemoral
35650	Art byp axillary-axillary
35654	Art byp axill-fem-femoral
35656	Art byp femoral-popliteal
35661	Art byp femoral-femoral
35663	Art byp ilioiliac
35665	Art byp iliofemoral
35666	Art byp fem-ant-post tib/prl
35671	Art byp pop-tibl-prl-other
35681	Composite byp grft pros&vein
35682	Composite byp grft 2 veins
35683	Composite byp grft 3/> segmt
35691	Art trnsposj vertbrl carotid
35693	Art trnsposj subclavian
35694	Art trnsposj subclav carotid
35695	Art trnsposj carotid subclav
35697	Reimplant artery each
35700	Reoperation bypass graft
35701	Expl n/flwd surg neck art
35702	Expl n/flwd surg uxtr art

35703	Expl n/flwd surg lxtr art
35800	Explore neck vessels
35820	Explore chest vessels
35840	Explore abdominal vessels
35870	Repair vessel graft defect
35879	Revision, lower extremity arterial bypass, without thrombectomy*
35881	Revision, lower extremity arterial bypass, without thrombectomy*
35883	Revision, femoral anastomosis of synthetic arterial bypass graft in groin*
35884	Revision, femoral anastomosis of synthetic arterial bypass graft in groin*
35901	Excision graft neck
35905	Excision graft thorax
35907	Excision graft abdomen
36200	Introduction of catheter, aorta*
36660	Insertion catheter artery
36823	Insertion of cannula(s)
37140	Revision of circulation
37145	Revision of circulation
37160	Revision of circulation
37180	Revision of circulation
37181	Splice spleen/kidney veins
37182	Insert hepatic shunt (tips)
37184	Primary percutaneous transluminal mechanical thrombectomy*
37185	Primary percutaneous transluminal mechanical thrombectomy*
37186	Secondary percutaneous transluminal thrombectomy*
37195	Thrombolysis, cerebral, by intravenous infusion*
37215	Transcath stent cca w/eps
37217	Stent placemt retro carotid
37218	Stent placemt ante carotid
37616	Ligation of chest artery
37617	Ligation of abdomen artery
37618	Ligation of extremity artery
37660	Revision of major vein
37788	Revascularization penis
38100	Removal of spleen total
38101	Removal of spleen partial
38102	Removal of spleen total
38115	Repair of ruptured spleen
38380	Thoracic duct procedure
38381	Thoracic duct procedure
38382	Thoracic duct procedure
38562	Removal pelvic lymph nodes

38564	Removal abdomen lymph nodes
38724	Removal of lymph nodes neck
38746	Remove thoracic lymph nodes
38747	Remove abdominal lymph nodes
38765	Remove groin lymph nodes
38770	Remove pelvis lymph nodes
38780	Remove abdomen lymph nodes
39000	Exploration of chest
39010	Exploration of chest
39200	Resect mediastinal cyst
39220	Resect mediastinal tumor
39499	Chest procedure
39501	Repair diaphragm laceration
39503	Repair of diaphragm hernia
39540	Repair of diaphragm hernia
39541	Repair of diaphragm hernia
39545	Revision of diaphragm
39560	Resect diaphragm simple
39561	Resect diaphragm complex
39599	Diaphragm surgery procedure
40700	Plastic repair of cleft lip/nasal deformity; primary, partial or complete*
40701	Plastic repair of cleft lip/nasal deformity; primary bilateral*
40702	Plastic repair of cleft lip/nasal deformity; primary bilateral, 1 of 2 stages*
40720	Plastic repair of cleft lip/nasal deformity; secondary*
40761	Plastic repair of cleft lip/nasal deformity; with cross lip pedicle flap*
41120	Glossectomy; less than one-half tongue*
41130	Partial removal of tongue
41135	Tongue and neck surgery
41140	Removal of tongue
41145	Tongue removal neck surgery
41150	Tongue mouth jaw surgery
41153	Tongue mouth neck surgery
41155	Tongue jaw & neck surgery
42200	Palatoplasty for cleft palate, soft and/or hard palate only*
42205	Palatoplasty for cleft palate, with closure of alveolar ridge*
42210	Palatoplasty for cleft palate, with closure of alveolar ridge*
42220	Palatoplasty for cleft palate; secondary lengthening procedure*
42225	Palatoplasty for cleft palate; attachment pharyngeal flap*
42426	Excise parotid gland/lesion
42845	Extensive surgery of throat
42894	Revision of pharyngeal walls

42953	Repair throat esophagus
42961	Control throat bleeding
42971	Control nose/throat bleeding
43045	Incision of esophagus
43100	Excision of esophagus lesion
43101	Excision of esophagus lesion
43107	Removal of esophagus
43108	Removal of esophagus
43112	Esphg tot w/thrcm
43113	Removal of esophagus
43116	Partial removal of esophagus
43117	Partial removal of esophagus
43118	Partial removal of esophagus
43121	Partial removal of esophagus
43122	Partial removal of esophagus
43123	Partial removal of esophagus
43124	Removal of esophagus
43135	Removal of esophagus pouch
43279	Lap myotomy heller
43280	Laparoscopy, surgical, esophagogastric fundoplasty*
43281	Laparoscopy, surgical, repair of paraesophageal hernia*
43282	Laparoscopy, surgical, repair of paraesophageal hernia*
43283	Lap esoph lengthening
43286	Esphg tot w/laps moblj
43287	Esphg dstl 2/3 w/laps moblj
43288	Esphg thrsc moblj
43300	Repair of esophagus
43305	Repair esophagus and fistula
43310	Repair of esophagus
43312	Repair esophagus and fistula
43313	Esophagoplasty congenital
43314	Tracheo-esophagoplasty cong
43320	Fuse esophagus & stomach
43325	Revise esophagus & stomach
43327	Esoph fundoplasty lap
43328	Esoph fundoplasty thor
43330	Esophagomyotomy abdominal
43331	Esophagomyotomy thoracic
43332	Transab esoph hiat hern rpr
43333	Transab esoph hiat hern rpr
43334	Transthor diaphrag hern rpr

43335	Transthor diaphrag hern rpr
43336	Thorabd diaphr hern repair
43337	Thorabd diaphr hern repair
43338	Esoph lengthening
43340	Fuse esophagus & intestine
43341	Fuse esophagus & intestine
43351	Surgical opening esophagus
43352	Surgical opening esophagus
43360	Gastrointestinal repair
43361	Gastrointestinal repair
43400	Ligate esophagus veins
43405	Ligate/staple esophagus
43410	Repair esophagus wound
43415	Repair esophagus wound
43425	Repair esophagus opening
43460	Pressure treatment esophagus
43496	Free jejunum flap microvasc
43500	Surgical opening of stomach
43501	Surgical repair of stomach
43502	Surgical repair of stomach
43520	Incision of pyloric muscle
43605	Biopsy of stomach
43610	Excision of stomach lesion
43611	Excision of stomach lesion
43620	Removal of stomach
43621	Removal of stomach
43622	Removal of stomach
43631	Removal of stomach partial
43632	Removal of stomach partial
43633	Removal of stomach partial
43634	Removal of stomach partial
43635	Removal of stomach partial
43640	Vagotomy & pylorus repair
43641	Vagotomy & pylorus repair
43644	Lap gastric bypass/roux-en-y
43645	Lap gastr bypass incl smll
43647	Laparoscopy, surgical; implantation or replacement of gastric*
43648	Laparoscopy, surgical; revision or removal*
43771	Lap revise gastr adj device
43772	Laparoscopy, surgical, gastric restrictive procedure; removal*
43773	Laparoscopy, surgical, gastric restrictive procedure; removal*

43774	Laparoscopy, surgical, gastric restrictive procedure; removal*
43775	Lap sleeve gastrectomy
43800	Reconstruction of pylorus
43810	Fusion of stomach and bowel
43820	Fusion of stomach and bowel
43825	Fusion of stomach and bowel
43832	Place gastrostomy tube
43840	Repair of stomach lesion
43843	Gastroplasty w/o v-band
43845	Gastroplasty duodenal switch
43846	Gastric bypass for obesity
43847	Gastric bypass incl small ÷
43848	Revision gastroplasty
43850	Revise stomach-bowel fusion*
43855	Revise stomach-bowel fusion*
43860	Revise stomach-bowel fusion
43865	Revise stomach-bowel fusion
43880	Repair stomach-bowel fistula*
43880	Repair stomach-bowel fistula*
43881	Impl/redo electr d antrum
43882	Revise/remove electr d antrum
44005	Freeing of bowel adhesion
44010	Incision of small bowel
44015	Insert needle cath bowel
44020	Explore small intestine
44021	Decompress small bowel
44025	Incision of large bowel
44050	Reduce bowel obstruction
44055	Correct malrotation of bowel
44110	Excise intestine lesion(s)
44111	Excision of bowel lesion(s)
44120	Removal of small intestine
44121	Removal of small intestine
44125	Removal of small intestine
44126	Enterectomy w/o taper cong
44127	Enterectomy w/taper cong
44128	Enterectomy cong add-on
44130	Bowel to bowel fusion
44132	Enterectomy cadaver donor
44133	Enterectomy live donor
44135	Intestine transplnt cadaver

44136	Intestine transplant live
44137	Remove intestinal allograft
44139	Mobilization of colon
44140	Partial removal of colon
44141	Partial removal of colon
44143	Partial removal of colon
44144	Partial removal of colon
44145	Partial removal of colon
44146	Partial removal of colon
44147	Partial removal of colon
44150	Removal of colon
44151	Removal of colon/ileostomy
44155	Removal of colon/ileostomy
44156	Removal of colon/ileostomy
44157	Colectomy w/ileoanal anast
44158	Colectomy w/neo-rectum pouch
44160	Removal of colon
44187	Lap ileo/jejuno-stomy
44188	Lap colostomy
44202	Lap enterectomy
44203	Lap resect s/intestine addl
44204	Laparo partial colectomy
44205	Lap colectomy part w/ileum
44206	Lap part colectomy w/stoma
44207	L colectomy/coloproctostomy
44208	L colectomy/coloproctostomy
44210	Laparo total proctocolectomy
44211	Lap colectomy w/proctectomy
44212	Laparo total proctocolectomy
44213	Lap mobil splenic fl add-on
44227	Lap close enterostomy
44300	Open bowel to skin
44310	Ileostomy/jejunostomy
44314	Revision of ileostomy
44316	Devise bowel pouch
44320	Colostomy
44322	Colostomy with biopsies
44345	Revision of colostomy
44346	Revision of colostomy
44602	Suture small intestine
44603	Suture small intestine

44604	Suture large intestine
44605	Repair of bowel lesion
44615	Intestinal stricturoplasty
44620	Repair bowel opening
44625	Repair bowel opening
44626	Repair bowel opening
44640	Repair bowel-skin fistula
44650	Repair bowel fistula
44660	Repair bowel-bladder fistula
44661	Repair bowel-bladder fistula
44680	Surgical revision intestine
44700	Suspend bowel w/prosthesis
44715	Prepare donor intestine
44720	Prep donor intestine/venous
44721	Prep donor intestine/artery
44800	Excision of bowel pouch
44820	Excision of mesentery lesion
44850	Repair of mesentery
44899	Bowel surgery procedure
44900	Drain appendix abscess open
44960	Appendectomy
45110	Removal of rectum
45111	Partial removal of rectum
45112	Removal of rectum
45113	Partial proctectomy
45114	Partial removal of rectum
45116	Partial removal of rectum
45119	Remove rectum w/reservoir
45120	Removal of rectum
45121	Removal of rectum and colon
45123	Partial proctectomy
45126	Pelvic exenteration
45130	Excision of rectal prolapse
45135	Excision of rectal prolapse
45136	Excise ileoanal reservoir
45395	Lap removal of rectum
45397	Lap remove rectum w/pouch
45400	Laparoscopic proc
45402	Lap proctopexy w/sig resect
45540	Correct rectal prolapse
45550	Repair rectum/remove sigmoid

45562	Exploration/repair of rectum
45563	Exploration/repair of rectum
45800	Repair rect/bladder fistula
45805	Repair fistula w/colostomy
45820	Repair rectourethral fistula
45825	Repair fistula w/colostomy
46705	Repair of anal stricture
46710	Repr per/vag pouch snl proc
46712	Repr per/vag pouch dbl proc
46715	Rep perf anoper fistu
46716	Rep perf anoper/vestib fistu
46730	Construction of absent anus
46735	Construction of absent anus
46740	Construction of absent anus
46742	Repair of imperforated anus
46744	Repair of cloacal anomaly
46746	Repair of cloacal anomaly
46748	Repair of cloacal anomaly
46751	Repair of anal sphincter
47010	Open drainage liver lesion
47015	Inject/aspirate liver cyst
47100	Wedge biopsy of liver
47120	Partial removal of liver
47122	Extensive removal of liver
47125	Partial removal of liver
47130	Partial removal of liver
47133	Removal of donor liver
47135	Transplantation of liver
47140	Partial removal donor liver
47141	Partial removal donor liver
47142	Partial removal donor liver
47143	Prep donor liver whole
47144	Prep donor liver 3-segment
47145	Prep donor liver lobe split
47146	Prep donor liver/venous
47147	Prep donor liver/arterial
47300	Surgery for liver lesion
47350	Repair liver wound
47360	Repair liver wound
47361	Repair liver wound
47362	Repair liver wound

47380	Open ablate liver tumor rf
47381	Open ablate liver tumor cryo
47399	Unlisted procedure, liver*
47400	Incision of liver duct
47420	Incision of bile duct
47425	Incision of bile duct
47460	Incise bile duct sphincter
47480	Incision of gallbladder
47570	Laparo cholecystoenterostomy
47600	Removal of gallbladder
47605	Removal of gallbladder
47610	Removal of gallbladder
47612	Removal of gallbladder
47620	Removal of gallbladder
47700	Exploration of bile ducts
47701	Bile duct revision
47711	Excision of bile duct tumor
47712	Excision of bile duct tumor
47715	Excision of bile duct cyst
47720	Fuse gallbladder & bowel
47721	Fuse upper gi structures
47740	Fuse gallbladder & bowel
47741	Fuse gallbladder & bowel
47760	Fuse bile ducts and bowel
47765	Fuse liver ducts & bowel
47780	Fuse bile ducts and bowel
47785	Fuse bile ducts and bowel
47800	Reconstruction of bile ducts
47801	Placement bile duct support
47802	Fuse liver duct & intestine
47900	Suture bile duct injury
48000	Drainage of abdomen
48001	Placement of drain pancreas
48020	Removal of pancreatic stone
48100	Biopsy of pancreas open
48105	Resect/debride pancreas
48120	Removal of pancreas lesion
48140	Partial removal of pancreas
48145	Partial removal of pancreas
48146	Pancreatectomy
48148	Removal of pancreatic duct

48150	Partial removal of pancreas
48152	Pancreatectomy
48153	Pancreatectomy
48154	Pancreatectomy
48155	Removal of pancreas
48400	Injection intraop add-on
48500	Surgery of pancreatic cyst
48510	Drain pancreatic pseudocyst
48520	Fuse pancreas cyst and bowel
48540	Fuse pancreas cyst and bowel
48545	Pancreatorrhaphy
48547	Duodenal exclusion
48548	Fuse pancreas and bowel
48551	Prep donor pancreas
48552	Prep donor pancreas/venous
48554	Transplantation of pancreatic allograft
48554	Transpl allograft pancreas
48556	Removal allograft pancreas
49000	Exploration of abdomen
49002	Reopening of abdomen
49010	Exploration behind abdomen
49013	Prpertl pel pack hemrrg trma
49014	Reexploration pelvic wound
49020	Drainage abdom abscess open
49040	Drain open abdom abscess
49060	Drain open retroperi abscess
49062	Drain to peritoneal cavity
49203	Exc abd tum 5 cm or less
49204	Exc abd tum over 5 cm
49205	Exc abd tum over 10 cm
49215	Excise sacral spine tumor
49220	Multiple surgery abdomen*
49255	Removal of omentum
49412	Ins device for rt guide open
49425	Insert abdomen-venous drain
49428	Ligation of shunt
49596	Rpr aa hrn 1st > 10 ncr/strn
49605	Repair umbilical lesion
49606	Repair umbilical lesion
49610	Repair umbilical lesion
49611	Repair umbilical lesion

49616	Rpr aa hrn rcr 3-10 ncr/strn
49617	Rpr aa hrn rcr > 10 rdc
49618	Rpr aa hrn rcr > 10 ncr/strn
49621	Rpr parastomal hernia rdc
49622	Rpr parastomal hrna ncr/strn
49900	Repair of abdominal wall
49904	Omental flap extra-abdom
49905	Omental flap intra-abdom
49906	Free omental flap microvasc
50010	Exploration of kidney
50040	Drainage of kidney
50045	Exploration of kidney
50060	NI removal calculus
50065	Incision of kidney
50070	Incision of kidney
50075	NI rmlv lg staghorn calculus
50100	Revise kidney blood vessels
50120	Exploration of kidney
50125	Explore and drain kidney
50130	Pyelotomy w/removal calculus
50135	Exploration of kidney
50205	Renal biopsy open
50220	Remove kidney open
50225	Removal kidney open complex
50230	Removal kidney open radical
50234	Removal of kidney & ureter
50236	Removal of kidney & ureter
50240	Partial removal of kidney
50250	Cryoablate renal mass open
50280	Removal of kidney lesion
50290	Removal of kidney lesion
50300	Remove cadaver donor kidney
50320	Remove kidney living donor
50323	Prep cadaver renal allograft
50325	Prep donor renal graft
50327	Prep renal graft/venous
50328	Prep renal graft/arterial
50329	Prep renal graft/ureteral
50340	Removal of kidney
50360	Transplantation of kidney
50365	Transplantation of kidney

50370	Remove transplanted kidney
50380	Reimplantation of kidney
50400	Revision of kidney/ureter
50405	Revision of kidney/ureter
50500	Repair of kidney wound
50520	Close kidney-skin fistula
50525	Close nephrovisceral fistula
50526	Close nephrovisceral fistula
50540	Revision of horseshoe kidney
50543	Laparoscopy, surgical; partial nephrectomy*
50545	Laparo radical nephrectomy
50546	Laparoscopic nephrectomy
50547	Laparo removal donor kidney
50548	Laparo remove w/ureter
50600	Exploration of ureter
50605	Insert ureteral support
50610	Removal of ureter stone
50620	Removal of ureter stone
50630	Removal of ureter stone
50650	Removal of ureter
50660	Removal of ureter
50700	Revision of ureter
50715	Release of ureter
50722	Release of ureter
50725	Release/revise ureter
50728	Revise ureter
50740	Fusion of ureter & kidney
50750	Fusion of ureter & kidney
50760	Fusion of ureters
50770	Splicing of ureters
50780	Reimplant ureter in bladder
50782	Reimplant ureter in bladder
50783	Reimplant ureter in bladder
50785	Reimplant ureter in bladder
50800	Implant ureter in bowel
50810	Fusion of ureter & bowel
50815	Urine shunt to intestine
50820	Construct bowel bladder
50825	Construct bowel bladder
50830	Revise urine flow
50840	Replace ureter by bowel

50845	Appendico-vesicostomy
50860	Transplant ureter to skin
50900	Repair of ureter
50920	Closure ureter/skin fistula
50930	Closure ureter/bowel fistula
50940	Release of ureter
51525	Removal of bladder lesion
51530	Removal of bladder lesion
51550	Partial removal of bladder
51555	Partial removal of bladder
51565	Revise bladder & ureter(s)
51570	Removal of bladder
51575	Removal of bladder & nodes
51580	Remove bladder/revise tract
51585	Removal of bladder & nodes
51590	Remove bladder/revise tract
51595	Remove bladder/revise tract
51596	Remove bladder/create pouch
51597	Removal of pelvic structures
51800	Revision of bladder/urethra
51820	Revision of urinary tract
51840	Attach bladder/urethra
51841	Attach bladder/urethra
51865	Repair of bladder wound
51900	Repair bladder/vagina lesion
51920	Close bladder-uterus fistula
51925	Hysterectomy/bladder repair
51940	Correction of bladder defect
51960	Revision of bladder & bowel
51980	Construct bladder opening
53415	Reconstruction of urethra
53448	Remov/replc ur sphinctr comp
54125	Removal of penis
54130	Remove penis & nodes
54135	Remove penis & nodes
54390	Repair penis and bladder
54430	Revision of penis
54438	Replantation of penis
55605	Incise sperm duct pouch
55650	Remove sperm duct pouch
55801	Removal of prostate

55810	Extensive prostate surgery
55812	Extensive prostate surgery
55815	Extensive prostate surgery
55821	Removal of prostate
55831	Removal of prostate
55840	Extensive prostate surgery
55842	Extensive prostate surgery
55845	Extensive prostate surgery
55862	Extensive prostate surgery
55865	Extensive prostate surgery
55866	Laparoscopy, surgical prostatectomy*
56630	Extensive vulva surgery
56631	Extensive vulva surgery
56632	Extensive vulva surgery
56633	Extensive vulva surgery
56634	Extensive vulva surgery
56637	Extensive vulva surgery
56640	Extensive vulva surgery
57110	Remove vagina wall complete
57111	Remove vagina tissue compl
57270	Repair of bowel pouch
57280	Suspension of vagina
57296	Revise vag graft open abd
57305	Repair rectum-vagina fistula
57307	Fistula repair & colostomy
57308	Fistula repair transperine
57311	Repair urethrovaginal lesion
57531	Removal of cervix radical
57540	Removal of residual cervix
57545	Remove cervix/repair pelvis
58140	Myomectomy abdom method
58146	Myomectomy abdom complex
58150	Total hysterectomy
58152	Total hysterectomy
58180	Partial hysterectomy
58200	Extensive hysterectomy
58210	Extensive hysterectomy
58240	Removal of pelvis contents
58267	Vag hyst w/urinary repair
58275	Hysterectomy/revise vagina
58280	Hysterectomy/revise vagina

58285	Extensive hysterectomy
58293	Vag hyst w/uro repair compl*
58400	Suspension of uterus
58410	Suspension of uterus
58520	Repair of ruptured uterus
58540	Revision of uterus
58548	Lap radical hyst
58575	Laps tot hyst resj mal
58605	Division of fallopian tube
58611	Ligate oviduct(s) add-on
58700	Removal of fallopian tube
58720	Removal of ovary/tube(s)
58740	Adhesiolysis tube ovary
58750	Repair oviduct
58752	Revise ovarian tube(s)
58760	Fimbrioplasty
58822	Drain ovary abscess percut
58825	Transposition ovary(s)
58940	Removal of ovary(s)
58943	Removal of ovary(s)
58950	Resect ovarian malignancy
58951	Resect ovarian malignancy
58952	Resect ovarian malignancy
58953	Tah rad dissect for debulk
58954	Tah rad debulk/lymph remove
58956	Bso omentectomy w/tah
58957	Resect recurrent gyn mal
58958	Resect recur gyn mal w/lym
58960	Exploration of abdomen
59120	Treat ectopic pregnancy
59121	Treat ectopic pregnancy
59130	Treat ectopic pregnancy
59136	Treat ectopic pregnancy
59140	Treat ectopic pregnancy
59325	Revision of cervix
59350	Repair of uterus
59514	Cesarean delivery only
59515	Cesarean delivery only; including postpartum care*
59525	Remove uterus after cesarean
59620	Attempted vbac delivery only
59622	Cesarean delivery only, following attempted vaginal delivery*

59830	Treat uterus infection
59850	Abortion
59851	Abortion
59852	Abortion
59855	Abortion
59856	Abortion
59857	Abortion
60254	Extensive thyroid surgery
60270	Removal of thyroid
60505	Explore parathyroid glands
60521	Removal of thymus gland
60522	Removal of thymus gland
60540	Explore adrenal gland
60545	Explore adrenal gland
60600	Remove carotid body lesion
60605	Remove carotid body lesion
60650	Laparoscopy adrenalectomy
61105	Twist drill hole
61107	Drill skull for implantation
61108	Drill skull for drainage
61120	Burr hole for puncture
61140	Pierce skull for biopsy
61150	Pierce skull for drainage
61151	Pierce skull for drainage
61154	Pierce skull & remove clot
61156	Pierce skull for drainage
61210	Pierce skull implant device
61250	Pierce skull & explore
61253	Pierce skull & explore
61304	Open skull for exploration
61305	Open skull for exploration
61312	Open skull for drainage
61313	Open skull for drainage
61314	Open skull for drainage
61315	Open skull for drainage
61316	Implt cran bone flap to abdo
61320	Open skull for drainage
61321	Open skull for drainage
61322	Decompressive craniotomy
61323	Decompressive lobectomy
61333	Explore orbit/remove lesion

61340	Subtemporal decompression
61343	Craniectomy, suboccipital with cervical laminectomy*
61343	Incise skull (press relief)*
61345	Relieve cranial pressure
61450	Incise skull for surgery
61458	Incise skull for brain wound
61460	Incise skull for surgery
61500	Removal of skull lesion
61501	Remove infected skull bone
61510	Removal of brain lesion
61512	Remove brain lining lesion
61514	Removal of brain abscess
61516	Removal of brain lesion
61517	Implt brain chemotx add-on
61518	Removal of brain lesion
61519	Remove brain lining lesion
61520	Removal of brain lesion
61521	Removal of brain lesion
61522	Removal of brain abscess
61524	Removal of brain lesion
61526	Removal of brain lesion
61530	Removal of brain lesion
61531	Implant brain electrodes
61533	Implant brain electrodes
61534	Removal of brain lesion
61535	Remove brain electrodes
61536	Removal of brain lesion
61537	Removal of brain tissue
61538	Removal of brain tissue
61539	Removal of brain tissue
61540	Removal of brain tissue
61541	Incision of brain tissue
61543	Removal of brain tissue
61544	Remove & treat brain lesion
61545	Excision of brain tumor
61546	Removal of pituitary gland
61548	Removal of pituitary gland
61550	Release of skull seams
61552	Release of skull seams
61556	Incise skull/sutures
61557	Incise skull/sutures

61558	Excision of skull/sutures
61559	Excision of skull/sutures
61563	Excision of skull tumor
61564	Excision of skull tumor
61566	Removal of brain tissue
61567	Incision of brain tissue
61570	Remove foreign body brain
61571	Incise skull for brain wound
61575	Skull base/brainstem surgery
61576	Skull base/brainstem surgery
61580	Craniofacial approach skull
61581	Craniofacial approach skull
61582	Craniofacial approach skull
61583	Craniofacial approach skull
61584	Orbitocranial approach/skull
61585	Orbitocranial approach/skull
61586	Resect nasopharynx skull
61590	Infratemporal approach/skull
61591	Infratemporal approach/skull
61592	Orbitocranial approach/skull
61595	Transtemporal approach/skull
61596	Transcochlear approach/skull
61597	Transcondylar approach/skull
61598	Transpetrosal approach/skull
61600	Resect/excise cranial lesion
61601	Resect/excise cranial lesion
61605	Resect/excise cranial lesion
61606	Resect/excise cranial lesion
61607	Resect/excise cranial lesion
61608	Resect/excise cranial lesion
61611	Transect artery sinus
61613	Remove aneurysm sinus
61615	Resect/excise lesion skull
61616	Resect/excise lesion skull
61618	Repair dura
61619	Repair dura
61623	Endovascular temporary balloon arterial occlusion, head or neck*
61624	Transcath occlusion cns
61630	Intracranial angioplasty
61635	Intracran angioplasty w/stent
61645	Perq art m-thrombect &/nfs

61650	Evasc prlng admn rx agnt 1st
61651	Evasc prlng admn rx agnt add
61680	Intracranial vessel surgery
61682	Intracranial vessel surgery
61684	Intracranial vessel surgery
61686	Intracranial vessel surgery
61690	Intracranial vessel surgery
61692	Intracranial vessel surgery
61697	Brain aneurysm repr complx
61698	Brain aneurysm repr complx
61700	Brain aneurysm repr simple
61702	Inner skull vessel surgery
61703	Clamp neck artery
61705	Revise circulation to head
61708	Revise circulation to head
61710	Revise circulation to head
61711	Fusion of skull arteries
61735	Incise skull/brain surgery
61736	Litt icr 1 traj 1 smpl les
61737	Litt icr mlt trj mlt/cplx ls
61750	Incise skull/brain biopsy
61751	Brain biopsy w/ct/mr guide
61760	Implant brain electrodes
61781	Stereotactic computer-assisted (navigational) procedure; cranial*
61850	Implant neuroelectrodes
61860	Implant neuroelectrodes
61863	Implant neuroelectrode
61864	Implant neuroelectrde addl
61867	Implant neuroelectrode
61868	Implant neuroelectrde addl
61870	Implant neuroelectrodes*
62005	Treat skull fracture
62010	Treatment of head injury
62100	Repair brain fluid leakage
62115	Reduction of skull defect
62117	Reduction of skull defect
62120	Repair skull cavity lesion
62121	Incise skull repair
62140	Repair of skull defect
62141	Repair of skull defect
62142	Remove skull plate/flap

62143	Replace skull plate/flap
62145	Repair of skull & brain
62146	Repair of skull with graft
62147	Repair of skull with graft
62148	Retr bone flap to fix skull
62161	Dissect brain w/scope
62162	Remove colloid cyst w/scope
62163	Zneuroendoscopy w/fb removal*
62164	Remove brain tumor w/scope
62165	Remove pituit tumor w/scope
62180	Establish brain cavity shunt
62190	Establish brain cavity shunt
62192	Establish brain cavity shunt
62200	Establish brain cavity shunt
62201	Brain cavity shunt w/scope
62220	Establish brain cavity shunt
62223	Establish brain cavity shunt
62256	Remove brain cavity shunt
62258	Replace brain cavity shunt
63001	Laminectomy with exploration and/or decompression of spinal cord*
63003	Laminectomy with exploration and/or decompression of spinal cord*
63005	Laminectomy with exploration and/or decompression of spinal cord*
63012	Laminectomy with removal of abnormal facets and/or pars*
63015	Laminectomy with exploration and/or decompression of spinal cord*
63016	Laminectomy with exploration and/or decompression of spinal cord*
63017	Laminectomy with exploration and/or decompression of spinal cord*
63020	Laminotomy (hemilaminectomy), with decompression of nerve root(s)*
63035	Laminotomy (hemilaminectomy), with decompression of nerve root(s)*
63045	Laminectomy, facetectomy and foraminotomy*
63046	Laminectomy, facetectomy and foraminotomy*
63047	Laminectomy, facetectomy and foraminotomy *
63048	Laminectomy, facetectomy and foraminotomy*
63050	Cervical laminoplasty 2/> seg
63051	C-laminoplasty w/graft/plate
63055	Transpedicular approach with decompression of spinal cord*
63057	Transpedicular approach with decompression of spinal cord*
63077	Spine disk surgery thorax
63078	Spine disk surgery thorax
63081	Remove vert body dcmprn crvl
63082	Remove vertebral body add-on
63085	Remove vert body dcmprn thr

63086	Remove vertebral body add-on
63087	Remov vertbr dcmprn thrclmbr
63088	Remove vertebral body add-on
63090	Remove vert body dcmprn lmr
63091	Remove vertebral body add-on
63101	Remove vert body dcmprn thrc
63102	Remove vert body dcmprn lmr
63103	Remove vertebral body add-on
63170	Incise spinal cord tract(s)
63172	Drainage of spinal cyst
63173	Drainage of spinal cyst
63180	Revise spinal cord ligaments*
63182	Revise spinal cord ligaments*
63185	Incise spine nrv half segmnt
63190	Incise spine nrv >2 segmnts
63191	Incise spine accessory nerve
63194	Incise spine & cord cervical*
63195	Incise spine & cord thoracic*
63196	Incise spine&cord 2 trx cvl*
63197	Incise spine&cord 2 trx thrc
63198	Incise spin&cord 2 stgs cvl*
63199	Incise spin&cord 2 stgs thrc*
63200	Release spinal cord lumbar
63250	Revise spinal cord vsls cvl
63251	Revise spinal cord vsls thrc
63252	Revise spine cord vsl thrlmb
63267	Laminectomy for excision or evacuation of intraspinal lesion*
63270	Excise intrspinl lesion cvl
63271	Excise intrspinl lesion thrc
63272	Excise intrspinl lesion lmr
63273	Excise intrspinl lesion scl
63275	Bx/exc xdrl spine lesn cvl
63276	Bx/exc xdrl spine lesn thrc
63277	Bx/exc xdrl spine lesn lmr
63278	Bx/exc xdrl spine lesn scl
63280	Bx/exc idrl spine lesn cvl
63281	Bx/exc idrl spine lesn thrc
63282	Bx/exc idrl spine lesn lmr
63283	Bx/exc idrl spine lesn scl
63285	Bx/exc idrl imed lesn cervl
63286	Bx/exc idrl imed lesn thrc

63287	Bx/exc idrl imed lesn thrlmb
63290	Bx/exc xdrl/idrl lsn any lvl
63295	Repair laminectomy defect
63300	Remove vert xdrl body crvcl
63301	Remove vert xdrl body thrc
63302	Remove vert xdrl body thrlmb
63303	Remov vert xdrl bdy lmb/sac
63304	Remove vert idrl body crvcl
63305	Remove vert idrl body thrc
63306	Remov vert idrl bdy thrclmbr
63307	Remov vert idrl bdy lmb/sac
63308	Remove vertebral body add-on
63700	Repair of spinal herniation
63702	Repair of spinal herniation
63704	Repair of spinal herniation
63706	Repair of spinal herniation
63707	Repair spinal fluid leakage
63709	Repair spinal fluid leakage
63710	Graft repair of spine defect
63740	Install spinal shunt
64590	Insertion or replacement of peripheral or gastric neurostimulator*
64595	Revision or removal of peripheral or gastric neurostimulator*
64755	Incision of stomach nerves
64760	Incision of vagus nerve
64809	Remove sympathetic nerves
64818	Remove sympathetic nerves
64866	Fusion of facial/other nerve
64868	Fusion of facial/other nerve
65273	Repair of eye wound
69155	Extensive ear/neck surgery
69535	Remove part of temporal bone
69554	Remove ear lesion
69950	Incise inner ear nerve
75894	Transcatheter therapy, embolization, any method*
75956	Xray endovasc thor ao repr
75957	Xray endovasc thor ao repr
75958	Xray place prox ext thor ao
75959	Xray place dist ext thor ao
92941	Prq card revasc mi 1 vsl
92970	Cardioassist internal
92971	Cardioassist external

92975	Dissolve clot heart vessel
92986	Percutaneous balloon valvuloplasty; aortic valve*
92987	Percutaneous balloon valvuloplasty; mitral valve*
92992	Revision of heart chamber*
92993	Revision of heart chamber*
93583	Percutaneous transcatheter septal reduction therapy
99184	Hypothermia ill neonate
99190	Special pump services
99191	Special pump services
99192	Special pump services
99356	Prolonged service inpatient*
99357	Prolonged service inpatient*
99418	Prolng ip/obs e/m ea 15 min
99462	Sbsq nb em per day hosp
99468	Neonate crit care initial
99469	Neonate crit care subsq
99471	Ped critical care initial
99472	Ped critical care subsq
99475	Ped crit care age 2-5 init
99476	Ped crit care age 2-5 subsq
99477	Init day hosp neonate care
99478	Ic lbw inf < 1500 gm subsq
99479	Ic lbw inf 1500-2500 g subsq
99480	Ic inf pbw 2501-5000 g subsq
0075T	Perq stent/chest vert art
0076T	S&i stent/chest vert art
0095T	Rmvl artific disc addl crvcl
0098T	Rev artific disc addl
0163T	Lumb artif diskectomy addl*
0164T	Remove lumb artif disc addl
0165T	Revise lumb artif disc addl
0202T	Post vert arthrplst 1 lumbar
0219T	Plmt post facet implt cerv
0220T	Plmt post facet implt thor
0222T	Placement of a posterior intrafacet implant(s), unilateral or bilateral*
0235T	Trluml perip athrc visceral
0345T	Transcath mtral vlve repair
0483T	Tmvi percutaneous approach
0484T	Tmvi transthoracic exposure
0494T	Prep & cannulj cdvr don lung
0495T	Mntr cdvr don lng 1st 2 hrs

0496T	Mntr cdvr don lng ea addl hr
0543T	Ta mv rpr w/artif chord tend
0544T	Tcat mv annulus rcnstj
0545T	Tcat tv annulus rcnstj
0569T	Ttvr perq appr 1st prosth
0570T	Ttvr perq ea addl prosth
0584T	Perq islet cell transplant
0585T	Laps islet cell transplant
0586T	Open islet cell transplant
0643T	Tcat l ventr rstrj dev implt
0656T	Vrt bdy tethering ant <7 seg
0657T	Vrt bdy tethering ant 8+ seg
0659T	Tcat intra-c nfs supersat o2
C1721	Cardioverter-defibrillator, dual chamber (implantable)*
C1722	Cardioverter-defibrillator, single chamber (implantable)*
C1757	Catheter, thrombectomy/embolectomy*
C1769	Guide wire*
C1776	Joint device (implantable)*
C1777	Lead, cardioverter-defibrillator, endocardial single coil (implantable)*
C1882	Cardioverter-defibrillator, other than single or dual chamber*
C1884	Embolization protective system*
C1887	Catheter, guiding (may include infusion/perfusion capability)*
C1895	Lead, cardioverter-defibrillator, endocardial dual coil (implantable)*
C1896	Lead, cardioverter-defibrillator, other than endocardial*
C1899	Lead, pacemaker/cardioverter-defibrillator combination (implantable)*
C9606	Perc d-e cor revasc w ami s
G0302	Preoperative pulmonary surgery services for preparation*
G0303	Preoperative pulmonary surgery services for preparation*
G0304	Preoperative pulmonary surgery services for preparation*
G0305	Postdischarge pulmonary surgery services after LVRS*
G0341	Percutaneous islet celltrans
G0342	Laparoscopy islet cell trans
G0343	Laparotomy islet cell transp
G0412	Open tx iliac spine uni/bil
G0414	Pelvic ring fx treat int fix
G0415	Open tx post pelvic fxcture
G0448	Insertion or replacement of a permanent pacing*
S2066	Breast reconstruction with gluteal artery perforator (GAP) flap*
S2067	Breast reconstruction of a single breast*
S2068	Breast reconstruction with deep inferior epigastric perforator (DIEP) flap*
S2118	Metal-on-metal total hip resurfacing, including acetabular*

S2152	Solid organ(s), complete or segmental, single organ or combination *
S2205	Minimally invasive direct coronary artery bypass surgery*
S2206	Minimally invasive direct coronary artery bypass surgery*
S2207	Minimally invasive direct coronary artery bypass surgery*
S2208	Minimally invasive direct coronary artery bypass surgery*
S2209	Minimally invasive direct coronary artery bypass surgery*