

CPT/HCPCS	CodeDescription	PA Required
33202	Insertion of epicardial electrode(s); open incision (eg, thoracotomy, median sternotomy, subxiphoid approach)	Yes
33203	Insertion of epicardial electrode(s); endoscopic approach (eg, thoracoscopy, pericardioscopy)	Yes
33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial	Yes
33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular	Yes
33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular	Yes
33210	Insertion or replacement of temporary transvenous single chamber cardiac electrode or pacemaker catheter (separate procedure)	Yes
33211	Insertion or replacement of temporary transvenous dual chamber pacing electrodes (separate procedure)	Yes
33212	Insertion of Pacemaker Pulse Generator Only; with Existing single Lead	Yes
33213	Insertion of Pacemaker Pulse Generator Only; with Existing Dual Leads	Yes
33214	Upgrade of implanted pacemaker system, conversion of single chamber system to dual chamber system (includes removal of previously placed pulse generator, testing of existing lead, insertion of new lead, insertion of new pulse generator)	Yes
33215	Repositioning of previously implanted transvenous pacemaker or implantable defibrillator (right atrial or right ventricular) electrode	Yes
33216	Insertion of a single transvenous electrode, permanent pacemaker or implantable defibrillator	Yes
33217	Insertion of 2 transvenous electrodes, permanent pacemaker or implantable defibrillator	Yes
33218	Repair of single transvenous electrode, permanent pacemaker or implantable defibrillator	Yes
33220	Repair of 2 transvenous electrodes for permanent pacemaker or implantable defibrillator	Yes
33221	Insertion of Pacemaker Pulse Generator Only; with Existing Multiple Leads	Yes
33222	Relocation of Skin Pocket for Pacemaker	Yes
33223	Relocation of skin pocket for implantable defibrillator	Yes
33224	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or implantable defibrillator pulse generator (including revision of pocket, removal, insertion, and/or replacement of existing generator)	Yes
33225	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of implantable defibrillator or pacemaker pulse generator (eg, for upgrade to dual chamber system) (List separately in addition to code for primary procedure)	Yes
33226	Repositioning of previously implanted cardiac venous system (left ventricular) electrode (including removal, insertion and/or replacement of existing generator)	Yes
33227	Removal of Permanent Pacemaker Pulse Generator with Replacement of Pacemaker Pulse Generator; single Lead System	Yes
33228	Removal of Permanent Pacemaker Pulse Generator with Replacement of Pacemaker Pulse Generator; Dual Lead System	Yes
33229	Removal of Permanent Pacemaker Pulse Generator with Replacement of Pacemaker Pulse Generator; Multiple Lead System	Yes



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33230	Insertion of implantable defibrillator pulse generator only; with existing dual leads	Yes
33231	Insertion of implantable defibrillator pulse generator only; with existing multiple leads	Yes
33233	Removal of permanent pacemaker pulse generator only	Yes
33234	Removal of transvenous pacemaker electrode(s); single lead system, atrial or ventricular	Yes
33235	Removal of transvenous pacemaker electrode(s); dual lead system	Yes
33236	Removal of permanent epicardial pacemaker and electrodes by thoracotomy; single lead system,	Yes
	atrial or ventricular	
33237	Removal of permanent epicardial pacemaker and electrodes by thoracotomy; dual lead system	Yes
33240	Insertion of implantable defibrillator pulse generator only; with existing single lead	Yes
33241	Removal of implantable defibrillator pulse generator only	Yes
33243	Removal of single or dual chamber implantable defibrillator electrode(s); by thoracotomy	Yes
33244	Removal of single or dual chamber implantable defibrillator electrode(s); by transvenous extraction	Yes
33249	Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber	Yes
33262	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; single lead system	Yes
33263	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; dual lead system	Yes
33264	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; multiple lead system	Yes
33270	Insertion or replacement of permanent subcutaneous implantable defibrillator system, with subcutaneous electrode, including defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters, when performed	Yes
33271	Insertion of subcutaneous implantable defibrillator electrode	Yes
33272	Removal of subcutaneous implantable defibrillator electrode	Yes
33273	Repositioning of previously implanted subcutaneous implantable defibrillator electrode	Yes
33274	Transcatheter insertion or replacement of permanent leadless pacemaker, right ventricular, including imaging guidance (eg, fluoroscopy, venous ultrasound, ventriculography, femoral venography) and device evaluation (eg, interrogation or programming), when performed	Yes
33275	Transcatheter removal of permanent leadless pacemaker, right ventricular, including imaging guidance (eg, fluoroscopy, venous ultrasound, ventriculography, femoral venography), when performed	Yes
33285	Insertion, subcutaneous cardiac rhythm monitor, including programming	Yes
33286	Removal, subcutaneous cardiac rhythm monitor	Yes
33289	Transcatheter implantation of wireless pulmonary artery pressure sensor for long-term hemodynamic monitoring, including deployment and calibration of the sensor, right heart catheterization, selective pulmonary catheterization, radiological supervision and interpretation, and pulmonary artery angiography, when performed	Yes



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33340	Percutaneous transcatheter closure of the left atrial appendage with endocardial implant, including fluoroscopy, transseptal puncture, catheter placement(s), left atrial angiography, left atrial appendage angiography, when performed, and radiological supervision and interpretation	Yes
33361	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	Yes
33362	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	Yes
33363	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	Yes
33364	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	Yes
33365	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	Yes
33366	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	Yes
33367	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (List separately in addition to code for primary procedure)	Yes
33368	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac, axillary vessels) (List separately in addition to code for primary procedure)	Yes
33369	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atrium, pulmonary artery) (List separately in addition to code for primary procedure)	Yes
33405	Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	Yes
33406	Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	Yes
33410	Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	Yes
33411	Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	Yes
33412	Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	Yes
33413	Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	Yes
33418	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis	Yes
33419	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis(es) during same session (List separately in addition to code for primary procedure)	Yes
33425	Valvuloplasty, mitral valve, with cardiopulmonary bypass;	Yes
33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	Yes



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33427	Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	Yes
33430	Replacement, Mitral Valve, with Cardiopulmonary Bypass	Yes
33440	Replacement, aortic valve; by translocation of autologous pulmonary valve and transventricular aortic annulus enlargement of the left ventricular outflow tract with valved conduit replacement of pulmonary valve (Ross-Konno procedure)	Yes
33465	Replacement, Tricuspid Valve, with Cardiopulmonary Bypass	Yes
33475	Replacement, Pulmonary Valve	Yes
33477	Transcatheter pulmonary valve implantation, percutaneous approach, including pre-stenting of the valve delivery site, when performed	Yes
33510	Coronary artery bypass, vein only; single coronary venous graft	Yes
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	Yes
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	Yes
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	Yes
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	Yes
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	Yes
33517	Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	Yes
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	Yes
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	Yes
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	Yes
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	Yes
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	Yes
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	Yes
33533	Coronary Artery Bypass, Using Arterial Graft(S); single Arterial Graft	Yes
33534	Coronary Artery Bypass, Using Arterial Graft(S); 2 Coronary Arterial Grafts	Yes
33535	Coronary Artery Bypass, Using Arterial Graft(S); 3 Coronary Arterial Grafts	Yes
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	Yes
33572	Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right coronary artery performed in conjunction with coronary artery bypass graft procedure, each vessel (List separately in addition to primary procedure)	Yes
33641	Repair atrial Septal Defect, Secundum, with Cardiopulmonary Bypass, with or without Patch	Yes
33768	Anastomosis, cavopulmonary, second superior vena cava (List separately in addition to primary procedure)	Yes
33820	Repair of patent ductus arteriosus; by ligation	Yes



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33840	Excision of coarctation of aorta, with or without associated patent ductus arteriosus; with direct anastomosis	Yes
33900	Percutaneous pulmonary artery revascularization by stent placement, initial; normal native connections, unilateral	Yes
33901	Percutaneous pulmonary artery revascularization by stent placement, initial; normal native connections, bilateral	Yes
33902	Percutaneous pulmonary artery revascularization by stent placement, initial; abnormal connections, unilateral	Yes
33903	Percutaneous pulmonary artery revascularization by stent placement, initial; abnormal connections, bilateral	Yes
33904	Percutaneous pulmonary artery revascularization by stent placement, each additional vessel or separate lesion, normal or abnormal connections (List separately in addition to code for primary procedure)	Yes
33917	Repair of pulmonary artery stenosis by reconstruction with patch or graft	Yes
33924	Ligation and takedown of a systemic-to-pulmonary artery shunt, performed in conjunction with a congenital heart procedure (List separately in addition to code for primary procedure)	Yes
35001	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm and associated occlusive disease, carotid, subclavian artery, by neck incision	Yes
35011	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm and associated occlusive disease, axillary-brachial artery, by arm incision	Yes
35141	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, common femoral artery (profunda femoris, superficial femoral)	Yes
35151	Direct repair of aneurysm, pseudoaneurysm, or excision (partial or total) and graft insertion, with or without patch graft; for aneurysm, pseudoaneurysm, and associated occlusive disease, popliteal artery	Yes
35301	Thromboendarterectomy, including patch graft, if performed; carotid, vertebral, subclavian, by neck incision	Yes
35302	Thromboendarterectomy, including patch graft, if performed; superficial femoral artery	Yes
35303	Thromboendarterectomy, including patch graft, if performed; popliteal artery	Yes
35304	Thromboendarterectomy, including patch graft, if performed; tibioperoneal trunk artery	Yes
35305	Thromboendarterectomy, including patch graft, if performed; tibial or peroneal artery, initial vessel	Yes
35306	Thromboendarterectomy, including patch graft, if performed; each additional tibial or peroneal artery (List separately in addition to code for primary procedure)	Yes
35351	Thromboendarterectomy, including Patch Graft, If Performed; Iliac	Yes
35355	Thromboendarterectomy, including Patch Graft, If Performed; Iliofemoral	Yes
35371	Thromboendarterectomy, including Patch Graft, If Performed; Common Femoral	Yes
35372	Thromboendarterectomy, including Patch Graft, If Performed; Deep (Profunda) Femoral	Yes
35390	Reoperation, carotid, thromboendarterectomy, more than 1 month after original operation (List separately in addition to code for primary procedure)	Yes



CPT/HCPCS	CodeDescription	PA Required
35400	Angioscopy (noncoronary vessels or grafts) during therapeutic intervention (List separately in	Yes
	addition to code for primary procedure)	
35500	Harvest of upper extremity vein, 1 segment, for lower extremity or coronary artery bypass	Yes
	procedure (List separately in addition to code for primary procedure)	
35556	Bypass Graft, with Vein; Femoral-Popliteal	Yes
35558	Bypass Graft, with Vein; Femoral-Femoral	Yes
35566	Bypass graft, with vein; femoral-anterior tibial, posterior tibial, peroneal artery or other distal vessels	Yes
35571	Bypass graft, with vein; popliteal-tibial, -peroneal artery or other distal vessels	Yes
35572	Harvest of femoropopliteal vein, 1 segment, for vascular reconstruction procedure (eg, aortic,	Yes
	vena caval, coronary, peripheral artery) (List separately in addition to code for primary procedure)	
35583	In-situ vein bypass; femoral-popliteal	Yes
35585	In-situ vein bypass; femoral-anterior tibial, posterior tibial, or peroneal artery	Yes
35587	In-situ vein bypass; popliteal-tibial, peroneal	Yes
35600	Harvest of upper extremity artery, 1 segment, for coronary artery bypass procedure, open	Yes
35621	Bypass Graft, with Other than Vein; Axillary-Femoral	Yes
35646	Bypass Graft, with Other than Vein; Aortobifemoral	Yes
35654	Bypass Graft, with Other than Vein; Axillary-Femoral-Femoral	Yes
35656	Bypass Graft, with Other than Vein; Femoral-Popliteal	Yes
35661	Bypass graft, with other than vein; femoral-femoral	Yes
35665	Bypass Graft, with Other than Vein; Iliofemoral	Yes
35666	Bypass graft, with other than vein; femoral-anterior tibial, posterior tibial, or peroneal artery	Yes
35671	Bypass graft, with other than vein; popliteal-tibial or -peroneal artery	Yes
35700	Reoperation, femoral-popliteal or femoral (popliteal)-anterior tibial, posterior tibial, peroneal	Yes
	artery, or other distal vessels, more than 1 month after original operation (List separately in	
	addition to code for primary procedure)	
35881	Revision, lower extremity arterial bypass, without thrombectomy, open; with segmental vein interposition	Yes
35883	Revision, femoral anastomosis of synthetic arterial bypass graft in groin, open; with	Yes
	nonautogenous patch graft (eg, Dacron, ePTFE, bovine pericardium)	
35884	Revision, femoral anastomosis of synthetic arterial bypass graft in groin, open; with autogenous vein patch graft	Yes
36005	Injection procedure for extremity venography (including introduction of needle or intracatheter)	Yes
36140	Introduction of needle or intracatheter, upper or lower extremity artery	Yes
36200	Introduction of Catheter, Aorta	Yes
36215	Selective catheter placement, arterial system; each first order thoracic or brachiocephalic branch, within a vascular family	Yes
36216	Selective catheter placement, arterial system; initial second order thoracic or brachiocephalic branch, within a vascular family	Yes
36217	Selective Catheter Placement, Arterial System; initial Third order or More Selective Thoracic or Brachiocephalic Branch, within A Vascular Family	Yes



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36218	Selective catheter placement, arterial system; additional second order, third order, and beyond, thoracic or brachiocephalic branch, within a vascular family (List in addition to code for initial second or third order vessel as appropriate)	Yes
36221	Non-selective catheter placement, thoracic aorta, with angiography of the extracranial carotid, vertebral, and/or intracranial vessels, unilateral or bilateral, and all associated radiological supervision and interpretation, includes angiography of the cervicocerebral arch, when performed	Yes
36245	Selective catheter placement, arterial system; each first order abdominal, pelvic, or lower extremity artery branch, within a vascular family	Yes
36246	Selective catheter placement, arterial system; initial second order abdominal, pelvic, or lower extremity artery branch, within a vascular family	Yes
36247	Selective catheter placement, arterial system; initial third order or more selective abdominal, pelvic, or lower extremity artery branch, within a vascular family	Yes
36251	Selective catheter placement (first-order), main renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture and catheter placement(s), fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; unilateral	Yes
36252	Selective catheter placement (first-order), main renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture and catheter placement(s), fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; bilateral	Yes
36253	Superselective catheter placement (one or more second order or higher renal artery branches) renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture, catheterization, fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; unilateral	Yes
36254	Superselective catheter placement (one or more second order or higher renal artery branches) renal artery and any accessory renal artery(s) for renal angiography, including arterial puncture, catheterization, fluoroscopy, contrast injection(s), image postprocessing, permanent recording of images, and radiological supervision and interpretation, including pressure gradient measurements when performed, and flush aortogram when performed; bilateral	Yes
36465	Injection of non-compounded foam sclerosant with ultrasound compression maneuvers to guide dispersion of the injectate, inclusive of all imaging guidance and monitoring; single incompetent extremity truncal vein (eg, great saphenous vein, accessory saphenous vein)	Yes
36466	Injection of non-compounded foam sclerosant with ultrasound compression maneuvers to guide dispersion of the injectate, inclusive of all imaging guidance and monitoring; multiple incompetent truncal veins (eg, great saphenous vein, accessory saphenous vein), same leg	Yes
36473	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, mechanochemical; first vein treated	Yes



CPT/HCPCS		PA Required
36474	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, mechanochemical; subsequent vein(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)	Yes
36475	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, radiofrequency; first vein treated	Yes
36476	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, radiofrequency; subsequent vein(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)	Yes
36478	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, laser; first vein treated	Yes
36479	Endovenous ablation therapy of incompetent vein, extremity, inclusive of all imaging guidance and monitoring, percutaneous, laser; subsequent vein(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)	Yes
36482	Endovenous ablation therapy of incompetent vein, extremity, by transcatheter delivery of a chemical adhesive (eg, cyanoacrylate) remote from the access site, inclusive of all imaging guidance and monitoring, percutaneous; first vein treated	Yes
36483	Endovenous ablation therapy of incompetent vein, extremity, by transcatheter delivery of a chemical adhesive (eg, cyanoacrylate) remote from the access site, inclusive of all imaging guidance and monitoring, percutaneous; subsequent vein(s) treated in a single extremity, each through separate access sites (List separately in addition to code for primary procedure)	Yes
36836	Percutaneous arteriovenous fistula creation, upper extremity, single access of both the peripheral artery and peripheral vein, including fistula maturation procedures (eg, transluminal balloon angioplasty, coil embolization) when performed, including all vascular access, imaging guidance and radiologic supervision and interpretation	Yes
36837	Percutaneous arteriovenous fistula creation, upper extremity, separate access sites of the peripheral artery and peripheral vein, including fistula maturation procedures (eg, transluminal balloon angioplasty, coil embolization) when performed, including all vascular access, imaging guidance and radiologic supervision and interpretation	Yes
37215	Transcatheter placement of intravascular stent(s), cervical carotid artery, open or percutaneous, including angioplasty, when performed, and radiological supervision and interpretation; with distal embolic protection	Yes
37220	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal angioplasty	Yes
37221	Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Yes
37224	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty	Yes



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37225	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with atherectomy, includes angioplasty within the same vessel, when performed	Yes
37226	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Yes
37227	Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	Yes
37228	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal angioplasty	Yes
37229	Revascularization, Endovascular, Open or Percutaneous, Tibial, Peroneal Artery, Unilateral, initial Vessel; with atherectomy, Includes Angioplasty within the Same Vessel, when Performed	Yes
37230	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed	Yes
37231	Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, initial vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed	Yes
37232	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal angioplasty (List separately in addition to code for primary procedure)	Yes
37233	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	Yes
37234	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s), includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	Yes
37235	Revascularization, endovascular, open or percutaneous, tibial/peroneal artery, unilateral, each additional vessel; with transluminal stent placement(s) and atherectomy, includes angioplasty within the same vessel, when performed (List separately in addition to code for primary procedure)	Yes
37236	Transcatheter placement of an intravascular stent(s) (except lower extremity artery(s) for occlusive disease, cervical carotid, extracranial vertebral or intrathoracic carotid, intracranial, or coronary), open or percutaneous, including radiological supervision and interpretation and including all angioplasty within the same vessel, when performed; initial artery	Yes
37237	Transcatheter placement of an intravascular stent(s) (except lower extremity artery(s) for occlusive disease, cervical carotid, extracranial vertebral or intrathoracic carotid, intracranial, or coronary), open or percutaneous, including radiological supervision and interpretation and including all angioplasty within the same vessel, when performed; each additional artery (List separately in addition to code for primary procedure)	Yes



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37238	Transcatheter Placement of An Intravascular Stent(S), Open or Percutaneous, including Radiological Supervision and Interpretation and including Angioplasty within the Same Vessel, when Performed; initial Vein	Yes
37239	Transcatheter placement of an intravascular stent(s), open or percutaneous, including radiological supervision and interpretation and including angioplasty within the same vessel, when performed; each additional vein (List separately in addition to code for primary procedure)	Yes
37246	Transluminal balloon angioplasty (except lower extremity artery(ies) for occlusive disease, intracranial, coronary, pulmonary, or dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same artery; initial artery	Yes
37247	Transluminal balloon angioplasty (except lower extremity artery(ies) for occlusive disease, intracranial, coronary, pulmonary, or dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same artery; each additional artery (List separately in addition to code for primary procedure)	Yes
37248	Transluminal balloon angioplasty (except dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same vein; initial vein	Yes
37249	Transluminal balloon angioplasty (except dialysis circuit), open or percutaneous, including all imaging and radiological supervision and interpretation necessary to perform the angioplasty within the same vein; each additional vein (List separately in addition to code for primary procedure)	Yes
37765	Stab phlebectomy of varicose veins, 1 extremity; 10-20 stab incisions	Yes
37766	Stab phlebectomy of varicose veins, 1 extremity; more than 20 incisions	Yes
4110F	Internal mammary artery graft performed for primary, isolated coronary artery bypass graft procedure (CABG)	Yes
75580	Noninvasive estimate of coronary fractional flow reserve (FFR) derived from augmentative software analysis of the data set from a coronary computed tomography angiography, with interpretation and report by a physician or other qualified health care professional	Yes
75625	Aortography, abdominal, by serialography, radiological supervision and interpretation	Yes
75630	Aortography, abdominal plus bilateral iliofemoral lower extremity, catheter, by serialography, radiological supervision and interpretation	Yes
75710	Angiography, extremity, unilateral, radiological supervision and interpretation	Yes
75716	Angiography, extremity, bilateral, radiological supervision and interpretation	Yes
75726	Angiography, visceral, selective or supraselective (with or without flush aortogram), radiological supervision and interpretation	Yes
75736	Angiography, pelvic, selective or supraselective, radiological supervision and interpretation	Yes
76937	Ultrasound guidance for vascular access requiring ultrasound evaluation of potential access sites, documentation of selected vessel patency, concurrent realtime ultrasound visualization of vascular needle entry, with permanent recording and reporting (List separately in addition to code for primary procedure)	Yes
76984	Ultrasound, intraoperative thoracic aorta (eg, epiaortic), diagnostic	Yes



CPT/HCPCS	CodeDescription	PA Required
76987	Intraoperative epicardial cardiac ultrasound (ie, echocardiography) for congenital heart disease, diagnostic; including placement and manipulation of transducer, image acquisition, interpretation and report	Yes
76988	Intraoperative epicardial cardiac ultrasound (ie, echocardiography) for congenital heart disease, diagnostic; placement, manipulation of transducer, and image acquisition only	Yes
76989	Intraoperative epicardial cardiac ultrasound (ie, echocardiography) for congenital heart disease, diagnostic; interpretation and report only	Yes
92920	Percutaneous Transluminal Coronary Angioplasty; single Major Coronary Artery or Branch	Yes
92921	Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Yes
92924	Percutaneous Transluminal Coronary atherectomy, with Coronary Angioplasty when Performed; single Major Coronary Artery or Branch	Yes
92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Yes
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	Yes
92929	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Yes
92933	Percutaneous Transluminal Coronary atherectomy, with Intracoronary Stent, with Coronary Angioplasty when Performed; single Major Coronary Artery or Branch	Yes
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Yes
92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	Yes
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (List separately in addition to code for primary procedure)	Yes
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel	Yes
92944	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)	Yes
92960	Cardioversion, elective, electrical conversion of arrhythmia; external	Yes
92961	Cardioversion, elective, electrical conversion of arrhythmia; internal (separate procedure)	Yes



CPT/HCPCS	CodeDescription	PA Required
92972	Percutaneous transluminal coronary lithotripsy (List separately in addition to code for primary procedure)	Yes
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure)	Yes
92974	Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure)	Yes
92978	Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; initial vessel (List separately in addition to code for primary procedure)	Yes
92979	Endoluminal imaging of coronary vessel or graft using intravascular ultrasound (IVUS) or optical coherence tomography (OCT) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation and report; each additional vessel (List separately in addition to code for primary procedure)	Yes
92986	Percutaneous balloon valvuloplasty; aortic valve	Yes
92987	Percutaneous balloon valvuloplasty; mitral valve	Yes
92997	Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel	Yes
92998	Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	Yes
93292	Interrogation device evaluation (in person) with analysis, review and report by a physician or other qualified health care professional, includes connection, recording and disconnection per patient encounter; wearable defibrillator system	Yes
93451	Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed	Yes
93452	Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed	Yes
93453	Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed	Yes
93454	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;	Yes
93455	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography	Yes
93456	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization	Yes
93457	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization	Yes



CPT/HCPCS	CodeDescription	PA Required
93458	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed	Yes
93459	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	Yes
93460	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed	Yes
93461	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	Yes
93462	Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (List separately in addition to code for primary procedure)	Yes
93463	Pharmacologic agent administration (eg, inhaled nitric oxide, intravenous infusion of nitroprusside, dobutamine, milrinone, or other agent) including assessing hemodynamic measurements before, during, after and repeat pharmacologic agent administration, when performed (List separately in addition to code for primary procedure)	Yes
93464	Physiologic exercise study (eg, bicycle or arm ergometry) including assessing hemodynamic measurements before and after (List separately in addition to code for primary procedure)	Yes
93505	Endomyocardial Biopsy	Yes
93563	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective coronary angiography during congenital heart catheterization (List separately in addition to code for primary procedure)	Yes
93564	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective opacification of aortocoronary venous or arterial bypass graft(s) (eg, aortocoronary saphenous vein, free radial artery, or free mammary artery graft) to one or more coronary arteries and in situ arterial conduits (eg, internal mammary), whether native or used for bypass to one or more coronary arteries during congenital heart catheterization, when performed (List separately in addition to code for primary procedure)	Yes
93565	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective left ventricular or left atrial angiography (List separately in addition to code for primary procedure)	Yes



CPT/HCPCS	CodeDescription	PA Required
93566	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective right ventricular or right atrial angiography (List separately in addition to code for primary procedure)	Yes
93567	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for supravalvular aortography (List separately in addition to code for primary procedure)	Yes
93568	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for pulmonary angiography (List separately in addition to code for primary procedure)	Yes
93569	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective pulmonary arterial angiography, unilateral (List separately in addition to code for primary procedure)	Yes
93571	Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; initial vessel (List separately in addition to code for primary procedure)	Yes
93572	Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; each additional vessel (List separately in addition to code for primary procedure)	Yes
93573	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective pulmonary arterial angiography, bilateral (List separately in addition to code for primary procedure)	Yes
93574	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective pulmonary venous angiography of each distinct pulmonary vein during cardiac catheterization (List separately in addition to code for primary procedure)	Yes
93575	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective pulmonary angiography of major aortopulmonary collateral arteries (MAPCAs) arising off the aorta or its systemic branches, during cardiac catheterization for congenital heart defects, each distinct vessel (List separately in addition to code for primary procedure)	Yes
93580	Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant	Yes
93581	Percutaneous transcatheter closure of a congenital ventricular septal defect with implant	Yes
93582	Percutaneous transcatheter closure of patent ductus arteriosus	Yes
93583	Percutaneous Transcatheter Septal Reduction therapy (Eg, Alcohol Septal Ablation) including Temporary Pacemaker Insertion when Performed	Yes
93584	Venography for congenital heart defect(s), including catheter placement, and radiological supervision and interpretation; anomalous or persistent superior vena cava when it exists as a second contralateral superior vena cava, with native drainage to heart (List separately in addition to code for primary procedure)	No



CPT/HCPCS	CodeDescription	PA Required
93585	Venography for congenital heart defect(s), including catheter placement, and radiological supervision and interpretation; azygos/hemiazygos venous system (List separately in addition to code for primary procedure)	No
93586	Venography for congenital heart defect(s), including catheter placement, and radiological supervision and interpretation; coronary sinus (List separately in addition to code for primary procedure)	No
93587	Venography for congenital heart defect(s), including catheter placement, and radiological supervision and interpretation; venovenous collaterals originating at or above the heart (eg, from innominate vein) (List separately in addition to code for primary procedure)	No
93588	Venography for congenital heart defect(s), including catheter placement, and radiological supervision and interpretation; venovenous collaterals originating below the heart (eg, from the inferior vena cava) (List separately in addition to code for primary procedure)	No
93590	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, mitral valve	Yes
93591	Percutaneous transcatheter closure of paravalvular leak; initial occlusion device, aortic valve	Yes
93592	Percutaneous transcatheter closure of paravalvular leak; each additional occlusion device (List separately in addition to code for primary procedure)	Yes
93609	Intraventricular and/or intra-atrial mapping of tachycardia site(s) with catheter manipulation to record from multiple sites to identify origin of tachycardia (List separately in addition to code for primary procedure)	Yes
93613	Intracardiac electrophysiologic 3-dimensional mapping (List separately in addition to code for primary procedure)	Yes
93619	Comprehensive electrophysiologic evaluation with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording, including insertion and repositioning of multiple electrode catheters, without induction or attempted induction of arrhythmia	Yes
93620	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with right atrial pacing and recording, right ventricular pacing and recording, His bundle recording	Yes
93621	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left atrial pacing and recording from coronary sinus or left atrium (List separately in addition to code for primary procedure)	Yes
93622	Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of arrhythmia; with left ventricular pacing and recording (List separately in addition to code for primary procedure)	Yes



CPT/HCPCS	CodeDescription	PA Required
93623	Programmed stimulation and pacing after intravenous drug infusion (List separately in addition to code for primary procedure)	Yes
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	Yes
93653	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry	Yes
93654	Comprehensive electrophysiologic evaluation with insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia with right atrial pacing and recording and catheter ablation of arrhythmogenic focus, including intracardiac electrophysiologic 3-dimensional mapping, right ventricular pacing and recording, left atrial pacing and recording from coronary sinus or left atrium, and His bundle recording, when performed; with treatment of ventricular tachycardia or focus of ventricular ectopy including left ventricular pacing and recording, when performed	Yes
93655	Intracardiac catheter ablation of a discrete mechanism of arrhythmia which is distinct from the primary ablated mechanism, including repeat diagnostic maneuvers, to treat a spontaneous or induced arrhythmia (List separately in addition to code for primary procedure)	Yes
93656	Comprehensive electrophysiologic evaluation with transseptal catheterizations, insertion and repositioning of multiple electrode catheters, induction or attempted induction of an arrhythmia including left or right atrial pacing/recording, and intracardiac catheter ablation of atrial fibrillation by pulmonary vein isolation, including intracardiac electrophysiologic 3-dimensional mapping, intracardiac echocardiography with imaging supervision and interpretation, right ventricular pacing/recording, and His bundle recording, when performed	Yes
93657	Additional linear or focal intracardiac catheter ablation of the left or right atrium for treatment of atrial fibrillation remaining after completion of pulmonary vein isolation (List separately in addition to code for primary procedure)	Yes
93662	Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation (List separately in addition to code for primary procedure)	Yes
93745	Initial set-up and programming by a physician or other qualified health care professional of wearable cardioverter-defibrillator includes initial programming of system, establishing baseline electronic ECG, transmission of data to data repository, patient instruction in wearing system and patient reporting of problems or events	Yes
C1721	CARDIOVERT-DEFIBRILLATOR DUAL CHAMB	Yes
C1722	CARDIOVERT-DEFIB SINGLE CHAMB	Yes
C1730	CATH EP DX OTH THAN 3D MAP 19/<	Yes



	CodeDescription	PA Required
C1731	CATH EP DX OTH THAN 3D MAP 20/>	Yes
C1732	CATH EP DX/ABLAT 3D/VECTOR MAP	Yes
C1733	CATH EP DX/ABLAT NOT MAP/COOL-TIP	Yes
C1753	CATHETER INTRAVASCULAR ULTRASOUND	Yes
C1759	CATHETER INTRACARD ECHOCARDIOGRAPHY	Yes
C1760	CLOSURE DEVICE VASCULAR	Yes
C1764	EVENT RECORDER CARDIAC	Yes
C1768	GRAFT VASCULAR	Yes
C1777	LEAD CARDIOVRT-DFIB ENDOCARD 1 COIL	Yes
C1779	LEAD PACEMKR TRNS VDD SINGLE PASS	Yes
C1785	PACEMKR DUAL CHAMB RATE-RESPONSIVE	Yes
C1786	PACEMKR 1 CHAMB RATE-RESPONSIVE	Yes
C1876	STNT NON-COATED/NON-COVR DELIV SYS	Yes
C1877	STNT NON-COAT/NON-COVR W/O DEL SYS	Yes
C1882	CARDIOVRT-DFIB OTH THAN 1/DUL CHAMB	Yes
C1895	LEAD CARDIOVRT-DFIB ENDOCARD DUL	Yes
C1896	LEAD CARDIOVRT-DFIB NOT ENDOCARD	Yes
C1898	LEAD PACEMKR NOT TRNS VDD 1 PASS	Yes
C1899	LEAD PACEMKR/CARDIOVERT-DEFIB COMB	Yes
C1900	LEAD LT VENTRICULAR CORON VENUS SYS	Yes
C2617	STENT NON-COR TEMP W/O DELIV SYSTEM	Yes
C2619	PACEMKR DUL CHAMB NON RATE-RESPONS	Yes
C2620	PACEMKR 1 CHAMB NON RATE-RESPONSIVE	Yes
C2621	PACEMKR OTH THAN SINGLE/DUAL CHAMB	Yes
C2623	CATHETER TA DRUG-COATED NON-LASER	Yes
C2624	IMPL WL PULM ART PRSS SNSR DEL CATH	Yes
C2630	CATH EP DX/ABLAT NOT MAP COOL-TIP	Yes
C9600	PERQ TRANSCATH PLCMT; 1 MAJ CA/BR	Yes
C9601	PC TRNSCATH PLCMT; EA ADD BR MAJ CA	Yes
C9602	PERQ TL CORONARY ATHERECT; 1 MCA/BR	Yes
C9603	PERQ TL COR ATHERECT;EA ADD BR MCA	Yes
C9604	PERQ TL REVISION OF/THRU CABG;1 VES	Yes
C9605	PERQ TL REV OF/THRU CABG;EA ADD BR	Yes
C9606	PC TL REV AC TOT/SUBTOT OCCL 1 VES	Yes
C9607	PERQ TL REV CHRN TOT OCCL; 1 VESSEL	Yes
C9608	PC TL REV CHRN TOT OCCL; EA ADD BR	Yes
E0616	Implantable cardiac event recorder with memory, activator, and programmer	Yes
G0278	Iliac and/or Femoral Angiography at Time of Cath	Yes
G0448	Insertion or replacement of a permanent pacing cardioverter-defibrillator system with transvenous	Yes
	lead(s), single or dual chamber with insertion of pacing electrode, cardiac venous system, for left ventricular pacing	
K0606	Automatic external defibrillator, with integrated electrocardiogram analysis, garment type	Yes
K0607	Replacement battery for automated external defibrillator, garment type only, each	Yes
NUOUI	prepiacement battery for automated external delibilitator, garment type only, each	162



CPT/HCPCS	CodeDescription	PA Required
K0608	Replacement garment for use with automated external defibrillator, each	Yes
K0609	Replacement electrodes for use with automated external defibrillator, garment type only, each	Yes
S2205	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini- sternotomy surgery, performed under direct vision; using arterial graft(s), single coronary arterial graft	Yes
S2206	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini- sternotomy surgery, performed under direct vision; using arterial graft(s), two coronary arterial grafts	Yes
S2207	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini- sternotomy surgery, performed under direct vision; using venous graft only, single coronary venous graft	Yes
S2208	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini- sternotomy surgery, performed under direct vision; using single arterial and venous graft(s), single venous graft	Yes
S2209	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini- sternotomy surgery, performed under direct vision; using two arterial grafts and single venous graft	Yes