2024 Cardiology: Is the Procedure Medicare Inpatient Only or not?

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| xxxxx | Yellow = New CPT/HCPCS Code for CY 2024 | xxxxx | Green = Active CPT/HCPCS changed from "IP only" to "not IP only" on 1/1/2023 and under status denial exemption until 1/1/2025 |
|-------|--|-------|--|
| XXXXX | Blue = Active CPT/HCPCS changed from "not IP only" to "IP only" as of 1/1/2024 | XXXXX | Orange = Active CPT/HCPCS changed from "IP only" to "not IP only" on 1/1/2024 and under status denial exemption until 1/1/2026 |

Interventional Cardiology

| | Inpatient Only Procedure | | Not an Inpatient Only Procedure |
|-------|--|-----------------|--|
| 0345T | Transcatheter mitral valve repair percutaneous approach via the coronary sinus | 0205T | Intravascular catheter-based coronary vessel or graft spectroscopy (eg, infrared) during diagnostic evaluation and/or therapeutic intervention including imaging supervision, interpretation, and report, each vessel (List separately in addition to code for primary procedure) |
| 0483T | Transcatheter mitral valve implantation/replacement (TMVI) with prosthetic valve; percutaneous approach, including transseptal puncture, when performed | 0338T- 0339T | Transcatheter renal sympathetic denervation, percutaneous approach including arterial puncture, selective catheter placement(s) renal artery(ies), fluoroscopy, contrast injection(s), intraprocedural roadmapping and radiological supervision and interpretation, including pressure gradient measurements, flush aortogram and diagnostic renal angiography when performed; unilateral or bilateral; codes 0338T, 0339T |
| 0484T | Transcatheter mitral valve implantation/replacement (TMVI) with prosthetic valve; transthoracic exposure (eg, thoracotomy, transapical) | 0523T | Intraprocedural coronary fractional flow reserve (FFR) with 3D functional mapping of color-coded FFR values for the coronary tree, derived from coronary angiogram data, for real-time review and interpretation of possible atherosclerotic stenosis(es) intervention (List separately in addition to code for primary procedure) |
| 0544T | Transcatheter mitral valve annulus reconstruction, with implantation of adjustable annulus reconstruction device, percutaneous approach including transseptal puncture | 0525T- 0527T | Insertion or replacement of intracardiac ischemia monitoring system, including testing of the lead and monitor, initial system programming, and imaging supervision and interpretation; complete system (electrode and implantable monitor), electrode only, or monitor only. |
| 0545T | Transcatheter tricuspid valve annulus reconstruction with implantation of adjustable annulus reconstruction device, percutaneous approach | 0530T- 0532T | Removal of intracardiac ischemia monitoring system, including all imaging supervision and interpretation; complete system (electrode and implantable monitor), electrode only, or monitor only |
| 0569T | Transcatheter tricuspid valve repair, percutaneous approach; initial prosthesis | | |
| 0570T | Transcatheter tricuspid valve repair, percutaneous approach; each additional prosthesis during same session (List separately in addition to code for primary procedure) | | |
| 0643T | Transcatheter left ventricular restoration device implantation including right and left heart catheterization and left ventriculography when performed, arterial approach | 0644T | Transcatheter removal or debulking of intracardiac mass (eg, vegetations, thrombus) via suction (eg, vacuum, aspiration) device, percutaneous approach, with intraoperative reinfusion of aspirated blood, including imaging guidance, when performed |
| 0646T | Transcatheter tricuspid valve implantation/replacement (TTVI) with prosthetic valve, percutaneous approach, including right heart catheterization, temporary pacemaker insertion, and selective right ventricular or right atrial angiography, when performed | 0645T | Transcatheter implantation of coronary sinus reduction device including vascular access and closure, right heart catheterization, venous angiography, coronary sinus angiography, imaging guidance, and supervision and interpretation, when performed |
| 0659T | Transcatheter intracoronary infusion of supersaturated oxygen in conjunction with percutaneous coronary revascularization during acute myocardial infarction, including catheter placement, imaging guidance (eg, fluoroscopy), angiography, and radiologic supervision and interpretation | 0793T | Percutaneous transcatheter thermal ablation of nerves innervating the pulmonary arteries, including right heart catheterization, pulmonary artery angiography, and all imaging guidance |
| 0805T | Transcatheter superior and inferior vena cava prosthetic valve implantation (i.e., caval valve | | |

| | implantation [CAVI]); percutaneous femoral vein approach | | |
|----------------|--|-------|--|
| 0806T | Transcatheter superior and inferior vena cava | | |
| | prosthetic valve implantation (i.e., caval valve | | |
| 33340 | implantation [CAVI]); open femoral vein approach 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 (e.g. | 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, |
| 33477 | Watchman device) Transcatheter pulmonary valve implantation, percutaneous approach, including pre-stenting of the valve delivery site, when performed | | when performed |
| 33361 | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery | | |
| 33362 | approach Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach | | |
| 33363 | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach | | |
| 33364 33365 | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach Transcatheter aortic valve replacement (TAVR/TAVI) | | |
| | with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy) | | |
| 33366 | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (e.g., left thoracotomy) | | |
| 33367 | Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (List | | |
| 33368 | separately in addition to code for primary procedure) 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 | | |
| 33369 | separately in addition to code for primary procedure) 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) | | |
| 33418 | Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis | | |
| 33419 | Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis (es) during same session | | |
| 33741 | Transcatheter atrial septostomy (TAS) for congenital cardiac anomalies to create effective atrial flow, including all imaging guidance by the proceduralist, when performed, any method (eg, Rashkind, Sang-Park, balloon, cutting balloon, blade) | | |
| 33745 | Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac catherization for congenital cardiac anomalies, and target zone angioplasty, when performed (eg, atrial septum, Fontan fenestration, right ventricular outflow tract, Mustard/Senning/Warden baffles); initial intracardiac shunt | | |
| 33746 | Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac catherization for congenital cardiac anomalies, and target zone angioplasty, when performed (eg, atrial septum, Fontan fenestration, right ventricular outflow tract, Mustard/Senning/Warden baffles); each additional intracardiac shunt location (List separately | | |

| | in addition to code for primary procedure) | | |
|-------|---|--|--|
| 33967 | Insertion of intra-aortic balloon assist device, | | |
| | percutaneous | | |
| 33968 | Removal of intra-aortic balloon assist device, | | |
| 00000 | percutaneous | | |
| 33990 | Insertion of ventricular assist device, percutaneous including radiological supervision and interpretation: | | |
| | arterial access only (e.g. Impella device) | | |
| 33991 | Insertion of ventricular assist device, percutaneous | | |
| | including radiological supervision and interpretation; | | |
| | both arterial and venous access, with transseptal | | |
| | puncture (e.g. Impella device) | | |
| 33992 | Removal of percutaneous ventricular assist device at | | |
| | separate and distinct session from insertion (e.g. | | |
| 22222 | Impella device) | | |
| 33993 | Repositioning of percutaneous ventricular assist device with imaging guidance at separate and distinct | | |
| | session from insertion (e.g. Impella device) | | |
| 33995 | Insertion of ventricular assist device, percutaneous, | | |
| | including radiological supervision and interpretation; | | |
| | right heart, venous access only (e.g. Impella device) | | |
| 33997 | Removal of percutaneous right heart ventricular assist | | |
| | device, venous cannula, at separate and distinct | | |
| 27245 | session from insertion (e.g. Impella device) | | |
| 37215 | Transcatheter placement of intravascular stent(s), cervical carotid artery, percutaneous; with distal | | |
| | embolic protection | | |
| 37218 | Transcatheter placement of intravascular stent(s), | | Percutaneous transluminal coronary angioplasty, |
| | intrathoracic common carotid artery or innominate | | atherectomy, or stent; codes 92920, 92924, 92928, |
| | artery, open or percutaneous antegrade approach, | | 92933, 92937, 92943 |
| | including angioplasty, when performed, and | | |
| | radiological supervision and interpretation | | |
| 92941 | Percutaneous transluminal revascularization of acute | | Percutaneous transluminal coronary angioplasty, |
| | total/subtotal occlusion during acute myocardial | | atherectomy, or stent; each additional branch of a |
| | infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, | | major coronary artery or bypass graft; codes 92921, 92925, 92929, 92934, 92938, 92944 |
| | atherectomy and angioplasty, including aspiration | | 92925, 92929, 92954, 92950, 92944 |
| | thrombectomy when performed, single vessel | | |
| C9606 | Percutaneous transluminal revascularization of acute | | Percutaneous transcatheter placement of drug eluting |
| | total/subtotal occlusion during acute myocardial | | intracoronary stent, atherectomy and angioplasty; |
| | infarction, coronary artery or coronary artery bypass | | codes C9600, C9602, C9604, C9607 |
| | graft, any combination of drug-eluting intracoronary | | |
| | stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single | | |
| | vessel | | |
| | | | Percutaneous transcatheter placement of drug eluting |
| | | | intracoronary stent, atherectomy and angioplasty; |
| | | | each additional branch of a major coronary artery or |
| | | | bypass graft; codes C9601, C9603, C9605, C9608 |
| | | 92972 | Percutaneous transluminal coronary lithotripsy (List separately in addition to code for primary procedure) |
| | | | separately in addition to code for primary procedure) |
| | | 00070 | |
| | | 92973 | Percutaneous transluminal coronary thrombectomy |
| | | 92973 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for |
| | | | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) |
| | | 92973 92974 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for |
| | | | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device |
| | | | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) |
| 92975 | Thrombolysis, coronary; by intracoronary infusion, | | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary |
| 92975 | Thrombolysis, coronary; by intracoronary infusion, including selective coronary angiography | 92974 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion |
| 92975 | | 92974 92977 92986 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve |
| 92975 | | 92974 92977 92986 92987 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve |
| 92975 | | 92974 92977 92986 92987 92990 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve |
| 92975 | | 92974 92977 92986 92987 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon |
| 92975 | | 92974 92977 92986 92987 92990 92997 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel |
| 92975 | | 92974 92977 92986 92987 92990 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon |
| 92975 | | 92974 92977 92986 92987 92990 92997 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) |
| 92975 | | 92974 92977 92986 92987 92990 92997 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital |
| 92975 | | 92974 92977 92986 92987 92990 92997 92998 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, |
| 92975 | | 92974 92977 92986 92987 92990 92997 92998 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant |
| 92975 | | 92974 92977 92986 92987 92990 92997 92998 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant |
| | including selective coronary angiography | 92974 92977 92986 92987 92990 92997 92998 93580 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant Percutaneous transcatheter closure of a congenital ventricular septal defect with implant |
| 92975 | including selective coronary angiography Percutaneous transcatheter septal reduction therapy | 92974 92977 92986 92987 92990 92997 92998 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant Percutaneous transcatheter closure of a congenital ventricular septal defect with implant Percutaneous transcatheter closure of patent ductus |
| | including selective coronary angiography | 92974 92977 92986 92987 92990 92997 92998 93580 | Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure) Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure) Thrombolysis, coronary; by intravenous infusion Percutaneous balloon valvuloplasty; aortic valve Percutaneous balloon valvuloplasty; mitral valve Percutaneous balloon valvuloplasty; pulmonary valve Percutaneous transluminal pulmonary artery balloon angioplasty; single vessel Percutaneous transluminal pulmonary artery balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure) Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant Percutaneous transcatheter closure of a congenital ventricular septal defect with implant |

| | leak; initial occlusion device, mitral valve |
|-------|---|
| 93591 | Percutaneous transcatheter closure of paravalvular |
| | leak; initial occlusion device, aortic valve |
| 93592 | Percutaneous transcatheter closure of paravalvular |
| | leak; each additional occlusion device (List separately |
| | in addition to code for primary procedure) |
| C9758 | Blinded procedure for nyha class iii/iv heart failure: |
| 03730 | transcatheter implantation of interatrial shunt or |
| | placebo control, including right heart catheterization, |
| | trans-esophageal echocardiography (tee)/intracardiac |
| | |
| | echocardiography (ice), and all imaging with or |
| | without guidance (e.g., ultrasound, fluoroscopy), |
| | performed in an approved investigational device |
| | exemption (ide) study |
| C9760 | Non-randomized, non-blinded procedure for nyha |
| | class ii, iii, iv heart failure; transcatheter implantation |
| | of interatrial shunt, including right and left heart |
| | catheterization, transeptal puncture, trans-esophageal |
| | echocardiography (tee)/intracardiac echocardiography |
| | (ice), and all imaging with or without guidance (e.g., |
| | ultrasound, fluoroscopy), performed in an approved |
| | investigational device exemption (ide) study |
| C9782 | Blinded procedure for new york heart association |
| | (nyha) class ii or iii heart failure, or canadian |
| | cardiovascular society (ccs) class iii or iv chronic |
| | refractory angina; transcatheter intramyocardial |
| | transplantation of autologous bone marrow cells (e.g., |
| | mononuclear) or placebo control, autologous bone |
| | marrow harvesting and preparation for |
| | transplantation, left heart catheterization including |
| | ventriculography, all laboratory services, and all |
| | imaging with or without guidance (e.g., transthoracic |
| | echocardiography, ultrasound, fluoroscopy), |
| | performed in an approved investigational device |
| | exemption (ide) study |
| C9783 | Blinded procedure for transcatheter implantation of |
| 09703 | coronary sinus reduction device or placebo control, |
| | including vascular access and closure, right heart |
| | catherization, venous and coronary sinus |
| | angiography, imaging guidance and supervision and |
| | |
| | interpretation when performed in an approved |
| 00700 | investigational device exemption (ide) study |
| C9792 | Blinded or nonblinded procedure for symptomatic new |
| | york heart association (nyha) class ii, iii, iva heart |
| | failure; transcatheter implantation of left atrial to |
| | coronary sinus shunt using jugular vein access, |
| | including all imaging necessary to intra procedurally |
| | map the coronary sinus for optimal shunt placement |
| | (e.g., tee or ice ultrasound, fluoroscopy), performed |
| | under general anesthesia in an approved |
| | investigational device exemption (ide) study |
| | |

Peripheral Vascular (See Vascular Surgery List for Additional Procedures)

| Inpatient Only Procedure | | Not an Inpatient Only Procedure |
|--------------------------|-----------------|---|
| | 35471 | Transluminal balloon angioplasty, percutaneous; renal or visceral artery |
| | 35472 | Transluminal balloon angioplasty, percutaneous; aortic |
| | 35476 | Transluminal balloon angioplasty, percutaneous; venous |
| | 36221- 36228 | Selective or non-selective catheter placement, thoracic aorta, common carotid, innominate artery, subclavian artery, vertebral artery, external carotid artery with angiography, includes angiography of the cervicocerebral arch, when performed; codes 36221, 36222, 36223, 36224, 36225, 36226, 36227, 36228 |
| | 36251- 36254 | Selective or superselective catheter placement, main renal artery, second order or higher renal artery branches for renal angiography, unilateral or bilateral; codes 36251, 36252, 36253, 36254 |
| | | Primary percutaneous transluminal mechanical thrombectomy, noncoronary, arterial or arterial bypass graft or vein, including fluoroscopic guidance and intraprocedural pharmacological thrombolytic |

| | injection(s); codes 37184, 37185, 37186, 37187, 37188 |
|-------|---|
| | Transcatheter placement of an intravascular stent(s) (except coronary, carotid, vertebral, iliac, and lower extremity arteries), percutaneous or open; codes 37205, 37206, 37207, 37208 |
| | Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, with transluminal angioplasty or stent; codes 37220, 37221, 37222, 37223 |
| | Revascularization, endovascular, open or percutaneous, femoral, popliteal artery(s), unilateral; with transluminal angioplasty or stent; codes 37224, 37225, 37226, 37227 |
| | Revascularization, endovascular, open or percutaneous, tibial, peroneal artery, unilateral, with transluminal angioplasty, atherectomy, or stent; codes 37228, 37229, 37230, 37231, 37232, 37233, 37234, 37235 |
| 37252 | Intravascular ultrasound (noncoronary vessel) during diagnostic evaluation and/or therapeutic intervention, including radiological supervision and interpretation, initial noncoronary vessel (List separately in addition to code for primary procedure) |
| 37253 | each additional noncoronary vessel (List separately in addition to code for primary procedure) |

Electrophysiology (See Cardiac Surgery List - Electrophysiology for Additional Procedures)

| Inpatient Only Procedure | | Not an Inpatient Only Procedure |
|--------------------------|-----------------|---|
| | 0266T | Implantation or replacement of carotid sinus baroreflex activation device; total system (includes generator placement, unilateral or bilateral lead placement, intra-operative interrogation, programming, and repositioning, when performed) |
| | 0267T | Implantation or replacement of carotid sinus baroreflex activation device; lead only, unilateral (includes intra-operative interrogation, programming, and repositioning, when performed) |
| | 0268T | Implantation or replacement of carotid sinus baroreflex activation device; pulse generator only (includes intra-operative interrogation, programming, and repositioning, when performed) |
| | 0269T- 0271T | Revision or removal of carotid sinus baroreflex activation device; total system, lead only, or pulse generator only (includes generator placement, unilateral or bilateral lead placement, intra-operative interrogation, programming, and repositioning, when performed); codes 0269T, 0270T, 0271T |
| | 0272T- 0273T | Interrogation device evaluation (in person), carotid sinus baroreflex activation system, including telemetric iterative communication with the implantable device to monitor device diagnostics and programmed therapy values, with interpretation and report (eg, battery status, lead impedance, pulse amplitude, pulse width, therapy frequency, pathway mode, burst mode, therapy start/stop times each day); with or without programming; codes 0272T, 0273T |
| | 0408T | Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator with transvenous electrodes |
| | 0409T- 0418T | Insertion, replacement, removal, reposition, relocation, or interrogation of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator, electrodes, skin pocket; codes 0409T, 0410T, 0411T, 0412T, 0413T, 0414T, 0415T, 0416T, 0417T, 0418T |
| | 0515T- 0517T | Insertion of wireless cardiac stimulator for left ventricular pacing, including device interrogation and programming, and imaging supervision and interpretation, when performed; complete system (electrode and generator), electrode only, or |

| | 0518T | generator only; codes 0515T, 0516T, 0517T Removal of only pulse generator component(s) |
|------|---------------|--|
| | 00101 | (battery and/or transmitter) of wireless cardiac |
| | | stimulator for left ventricular pacing |
| | 0519T | Removal and replacement of wireless cardiac stimulator for left ventricular pacing; pulse generator |
| | | component(s) (battery and/or transmitter) |
| | 0520T | Removal and replacement of wireless cardiac |
| | | stimulator for left ventricular pacing; pulse generator |
| | | component(s) (battery and/or transmitter), including |
| | 0614T | placement of a new electrode Removal and replacement of substernal implantable |
| | 00141 | defibrillator pulse generator |
| | 0795T | Transcatheter insertion of permanent dual-chamber |
| | | leadless pacemaker, including imaging guidance |
| | | (e.g., fluoroscopy, venous ultrasound, right atrial angiography, right ventriculography, femoral |
| | | venography) and device evaluation (eg, interrogation |
| | | or programming), when performed; complete system |
| | | (i.e., right atrial and right ventricular pacemaker |
| | 0700 T | components) |
| | 0796T | Transcatheter insertion of permanent dual-chamber leadless pacemaker, including imaging guidance (eg, |
| | | fluoroscopy, venous ultrasound, right atrial |
| | | angiography, right ventriculography, femoral |
| | | venography) and device evaluation (eg, interrogation |
| | | or programming), when performed; right atrial pacemaker component (when an existing right |
| | | ventricular single leadless pacemaker exists to create |
| | | a dual-chamber leadless pacemaker system) |
| | 0797T | Transcatheter insertion of permanent dual-chamber |
| | | leadless pacemaker, including imaging guidance (eg, |
| | | fluoroscopy, venous ultrasound, right atrial angiography, right ventriculography, femoral |
| | | venography) and device evaluation (eg, interrogation |
| | | or programming), when performed; right ventricular |
| | | pacemaker component (when part of a dual-chamber |
| | 0798T | leadless pacemaker system) Transcatheter removal of permanent dual-chamber |
| | 07 30 1 | leadless pacemaker, including imaging guidance |
| | | (e.g., fluoroscopy, venous ultrasound, right atrial |
| | | angiography, right ventriculography, femoral |
| | | venography), when performed; complete system (i.e., right atrial and right ventricular pacemaker |
| | | components) |
| | 0799T | Transcatheter removal of permanent dual-chamber |
| | | leadless pacemaker, including imaging guidance |
| | | (e.g., fluoroscopy, venous ultrasound, right atrial angiography, right ventriculography, femoral |
| | | venography), when performed; right atrial pacemaker |
| | | component |
| | T0080 | Transcatheter removal of permanent dual-chamber |
| | | leadless pacemaker, including imaging guidance (e.g., fluoroscopy, venous ultrasound, right atrial |
| | | angiography, right ventriculography, femoral |
| | | venography), when performed; right ventricular |
| | | pacemaker component (when part of a dual-chamber |
| | 0801T | leadless pacemaker system) Transcatheter removal and replacement of permanent |
| | 00011 | dual-chamber leadless pacemaker, including imaging |
| | | guidance (e.g., fluoroscopy, venous ultrasound, right |
| | | atrial angiography, right ventriculography, femoral |
| | | venography) and device evaluation (eg, interrogation |
| | | or programming), when performed; dualchamber system (i.e., right atrial and right ventricular |
| | | pacemaker components) |
| | 0802T | Transcatheter removal and replacement of permanent |
| | | dual-chamber leadless pacemaker, including imaging |
| | | guidance (e.g., fluoroscopy, venous ultrasound, right |
| | | atrial angiography, right ventriculography, femoral venography) and device evaluation (eg, interrogation |
| | | or programming), when performed; right atrial |
| | | pacemaker component |
| | 0803T | Transcatheter removal and replacement of permanent |
| | | dual-chamber leadless pacemaker, including imaging guidance (e.g., fluoroscopy, venous ultrasound, right |
| | | atrial angiography, right ventriculography, femoral |
| | | |

| | | venography) and device evaluation (eg, interrogation or programming), when performed; right ventricular pacemaker component (when part of a dual-chamber |
|----------|-----------------|--|
| | | leadless pacemaker system) |
| | 0823T | Transcatheter insertion of permanent single-chamber leadless pacemaker, right atrial, including imaging |
| | | guidance (eg, fluoroscopy, venous ultrasound, right |
| | | atrial angiography and/or right ventriculography, femoral venography, cavography) and device |
| | | evaluation (eg, interrogation or programming), when performed |
| | 0824T | Transcatheter removal of permanent single-chamber leadless pacemaker, right atrial, including imaging |
| | | guidance (eg, fluoroscopy, venous ultrasound, right |
| | | atrial angiography and/or right ventriculography, femoral venography, cavography), when performed |
| | 0825T | Transcatheter removal and replacement of permanent single-chamber leadless pacemaker, right atrial, |
| | | including imaging guidance (eg, fluoroscopy, venous |
| | | ultrasound, right atrial angiography and/or right |
| | | ventriculography, femoral venography, cavography) and device evaluation (eg, interrogration or |
| | | programming), when performed |
| | 0861T | Removal of pulse generator for wireless cardiac |
| | | stimulator for left ventricular pacing; both components (battery and transmitter) |
| | 0862T | Relocation of pulse generator for wireless cardiac |
| | | stimulator for left ventricular pacing, including device interrogation and programming; battery component |
| | 0863T | only Relocation of pulse generator for wireless cardiac |
| | | stimulator for left ventricular pacing, including device |
| | | interrogation and programming; transmitter component only |
| | 33206- | Insertion, replacement, repair, revision, removal, or |
| | 33264 | upgrade of pacemaker, icd, generator, transvenous electrodes, or skin pocket; codes 33206, 33207, |
| | | 33208, 33210, 33211, 33212, 33213, 33214, 33215, |
| | | 33216, 33217, 33218, 33220, 33221, 33222, 33223, |
| | | 33224, 33225, 33226, 33227, 33228, 33229, 33230, 33231, 33233, 33234, 33235, 33240, 33241, 33244, |
| | | 33249, 33262, 33263, 33264 |
| | 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 |
| | 33271- 33273 | Insertion or removal of, or repositioning of previously implanted, subcutaneous implantable defibrillator |
| | | electrode; codes 33271-33273 |
| | 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 |
| | 33275 | Transcatheter removal of permanent leadless pacemaker, right ventricular |
| | 33285 | Insertion, subcutaneous cardiac rhythm monitor, including programming |
| <u> </u> | 33286 | Removal, subcutaneous cardiac rhythm monitor |
| | 92953 | Temporary transcutaneous pacing |
| | 92960 | Cardioversion, elective, electrical conversion of arrhythmia; external |
| | 92961 | Cardioversion, elective, electrical conversion of arrhythmia; internal (separate procedure) |
| | 93260 | Programming device evaluation (in person) with |
| | | iterative adjustment of the implantable device to test |
| | | the function of the device and select optimal permanent programmed values with analysis, review |
| | | and report by a physician or other qualified health |
| | | care professional; implantable subcutaneous lead defibrillator system |
| | 93261 | 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; implantable subcutaneous lead defibrillator |
| | 93600 | system Bundle of His recording |
| | 93602 | Intra-atrial recording |
| | 93603 | Right ventricular recording |
| | 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) |
| | 93610 | Intra-atrial pacing |
| | 93612 | Intraventricular pacing |
| | 93613 | Intracardiac electrophysiologic 3-dimensional mapping (List separately in addition to code for primary |
| | | procedure) |
| | 93615 | Esophageal recording of atrial electrogram with or |
| | 00010 | without ventricular electrogram(s); |
| | 93616 | Esophageal recording of atrial electrogram with or |
| | | without ventricular electrogram(s); with pacing |
| | 93618 | Induction of arrhythmia by electrical pacing |
| | 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 |
| | 93620 | Comprehensive electrophysiologic evaluation |
| | 30020 | 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 |
| | 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) |
| | 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 |
| | 00000 | primary procedure) |
| | 93623 | Programmed stimulation and pacing after intravenous drug infusion (List separately in addition to code for |
| | | primary procedure) |
| | 93624 | Electrophysiologic follow-up study with pacing and |
| | | recording to test effectiveness of therapy, including |
| | | induction or attempted induction of arrhythmia |
| | 93631 | Intra-operative epicardial and endocardial pacing and |
| | | mapping to localize the site of tachycardia or zone of |
| | 00045 | slow conduction for surgical correction |
| | 93640 | Electrophysiologic evaluation of single or dual |
| | | chamber pacing cardioverter-defibrillator leads including defibrillation threshold evaluation (induction |
| | | of arrhythmia, evaluation of sensing and pacing for |
| | | arrhythmia termination) at time of initial implantation or |
| | | replacement; |
| | 93641 | Electrophysiologic evaluation of single or dual |
| | | chamber pacing cardioverter-defibrillator leads |
| | | including defibrillation threshold evaluation (induction |
| | | of arrhythmia, evaluation of sensing and pacing for |
| | | arrhythmia termination) at time of initial implantation or |
| | | replacement; with testing of single or dual chamber |
| | 93642 | pacing cardioverter-defibrillator pulse generator Electrophysiologic evaluation of single or dual |
| | 93042 | chamber pacing cardioverter-defibrillator (includes |
| | | defibrillation threshold evaluation, induction of |
| | | arrhythmia, evaluation of sensing and pacing for |
| | | arrhythmia termination, and programming or |
| | | reprogramming of sensing or therapeutic parameters) |
| | 93644 | Electrophysiologic evaluation of subcutaneous |
| | | implantable defibrillator (includes defibrillation |
| | | threshold evaluation, induction of arrhythmia, |

| | | evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters) |
|--|-------|--|
| | 93650 | Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement |
| | 93653 | Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with right atrial pacing and recording, right ventricular pacing and recording, His recording with intracardiac catheter ablation of arrhythmogenic focus; with treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathway, accessory atrioventricular connection, cavo-tricuspid isthmus or other single atrial focus or source of atrial re-entry |
| | 93654 | Comprehensive electrophysiologic evaluation including insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with right atrial pacing and recording, right ventricular pacing and recording, His recording with intracardiac catheter ablation of arrhythmogenic focus; with treatment of ventricular tachycardia or focus of ventricular ectopy including intracardiac electrophysiologic 3D mapping, when performed, and left ventricular pacing and recording, when performed |
| | 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) |
| | 93656 | Comprehensive electrophysiologic evaluation including transseptal catheterizations, insertion and repositioning of multiple electrode catheters with induction or attempted induction of an arrhythmia with atrial recording and pacing, when possible, right ventricular pacing and recording, His bundle recording with intracardiac catheter ablation of arrhythmogenic focus, with treatment of atrial fibrillation by ablation by pulmonary vein isolation |
| | 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) |
| | 93660 | Evaluation of cardiovascular function with tilt table evaluation, with continuous ECG monitoring and intermittent blood pressure monitoring, with or without pharmacological intervention |
| | 93662 | Intracardiac echocardiography during therapeutic/diagnostic intervention, including imaging supervision and interpretation (List separately in addition to code for primary procedure) |

Diagnostic Cardiology

| Inpatient Only Procedure | Not an Inpatient Only Procedure | |
|--------------------------|--|--|
| | 0331T Myocardial sympathetic innervation imaging, planar qualitative and quantitative assessment | |
| | 0332T Myocardial sympathetic innervation imaging, planar qualitative and quantitative assessment; with tomographic SPECT | |
| | 0439T Myocardial contrast perfusion echocardiography; at rest or with stress, for assessment of myocardial ischemia or viability (List separately in addition to code for primary procedure) | |
| | 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 |
|--|-----------------|---|
| | 76825- 76828 | Echocardiography, fetal, cardiovascular system, real time with image documentation (2D), with or without M-mode recording; with or without doppler echocardiography, pulsed wave and/or continuous wave with spectral display; complete, follow-up, or repeat study; codes 76825, 76826, 76827, 76828 |
| | 78429- 78434 | Myocardia imaging, PET, with concurrently acquired computed tomography scan; codes 78429; 78430; 78431; 78432; 78433; 78434 |
| | 93303 | Transthoracic echocardiography for congenital cardiac anomalies; complete |
| | 93304 | Transthoracic echocardiography for congenital cardiac anomalies; follow-up or limited study |
| | 93306- 93308 | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, with or without spectral Doppler echocardiography, with or without color flow Doppler echocardiography; complete, follow-up, or limited study; codes 93306, 93307, 93308 |
| | 93312- 93313 | Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); including probe placement; with or without image acquisition, interpretation and report; codes 93312, 93313 |
| | 93315- 93316 | Transesophageal echocardiography for congenital cardiac anomalies; including probe placement; with or without image acquisition, interpretation and report; codes 93315, 93316 |
| | 93318 | Echocardiography, transesophageal (TEE) for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to therapeutic measures on an immediate time basis |
| | 93319 | 3D echocardiographic imaging and postprocessing during transesophageal echocardiography, or during transthoracic echocardiography for congenital cardiac anomalies, for the assessment of cardiac structure(s) (eg, cardiac chambers and valves, left atrial appendage, interatrial septum, interventricular septum) and function, when performed |
| | 93350 | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report; |
| | 93351 | Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report; including performance of continuous electrocardiographic monitoring, with supervision by a physician or other qualified health care professional |
| | 93569- 93574 | Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective pulmonary arterial or venous angiography, unilateral, bilateral, or each distinct vein. Codes 93569, 93573, 93574 |
| | 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 |
| | 93451 | Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed |
| | 93452 | Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed |
| | | Combined right and left heart catheterization including |

| | | imaging supervision and interpretation, when |
|--|---------------------|---|
| | 93454- 93461 | Derformed Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with or without catheter placement(s) in bypass graft(s); with or without intraprocedural injection(s) for bypass graft angiography; with or without right heart catheterization; with or without intraprocedural injection(s) for left ventriculography; codes 93454, 93455, 93456, 93457, 93458, 93459, 93460, 93461 |
| | 93503 | Insertion and placement of flow directed catheter (eg, Swan-Ganz) for monitoring purposes |
| | 93505 | Endomyocardial biopsy |
| | 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) |
| | 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) |
| | 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) |
| | 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) |
| | 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) |
| | 93593 | Right heart catheterization for congenital heart defect(s) including imaging guidance by the proceduralist to advance the catheter to the target zone; normal native connections |
| | 93594 93595 | Right heart catheterization for congenital heart defect(s) including imaging guidance by the proceduralist to advance the catheter to the target zone; abnormal native connections Left heart catheterization for congenital heart defect(s) |
| | | including imaging guidance by the proceduralist to advance the catheter to the target zone, normal or abnormal native connections |
| | 93596 | Right and left heart catheterization for congenital heart defect(s) including imaging guidance by the proceduralist to advance the catheter to the target zone(s); normal native connections |
| | 93597 | Right and left heart catheterization for congenital heart defect(s) including imaging guidance by the proceduralist to advance the catheter to the target zone(s); abnormal native connections |
| | 93598 | Cardiac output measurement(s), thermodilution or other indicator dilution method, performed during cardiac catheterization for the evaluation of congenital heart defects (List separately in addition to code for primary procedure) |
| | 93660 | Evaluation of cardiovascular function with tilt table evaluation, with continuous ECG monitoring and intermittent blood pressure monitoring, with or without pharmacological intervention |
| | C8921 - C8922 | Transthoracic echocardiography with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; codes C8921, C8922 Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time |
| | | without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete or limited, with or without spectral or color doppler echocardiography; |

| codes C8923, C8924, C8929 |
|--|
| C8925 Transesophageal echocardiography (tee) with contrast, or without contrast followed by with contrast real time with image documentation (2d) (with or without m-mode recording); including probe placement, image acquisition, interpretation and report |
| C8926 Transesophageal echocardiography (tee) with contrast, or without contrast followed by with contrast for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report |
| C8927 Transesophageal echocardiography (tee) with contrast, or without contrast followed by with contrast for monitoring purposes, including probe placement real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to therapeutic measures on a immediate time basis |
| Transthoracic echocardiography, with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report; with or without performance of continuous electrocardiographic monitoring, with or without physician supervision; codes C8928, C8930 |

Miscellaneous

| Inpatient Only Procedure | | Not an Inpatient Only Procedure | |
|--|-------|---|--|
| | 0342T | Therapeutic apheresis with selective HDL delipidation and plasma reinfusion | |
| 99184 Initiation of selective head or total body hypothermia in the critically ill neonate, includes appropriate patient selection by review of clinical, imaging and laboratory data, confirmation of esophageal temperature probe location, evaluation of amplitude EEG, supervision of controlled hypothermia, and assessment of patient tolerance of cooling | 92950 | Cardiopulmonary resuscitation (eg, in cardiac arrest) | |