

**Prior Authorization Procedure List: Radiology & Cardiology**

				Jefferson Health Plans		Health Partners Plans	
Category	CPT®/HCPCS Codes	CPT® / HCPCS Description	Notations	JHP Commercial (ACA)	JHP Medicare	HPP Medicaid CHIP Excluded for Cardiology	DHS Healthy Beginnings
CID	33206	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial		Included	Included	Included	Included
CID	33207	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular		Included	Included	Included	Included
CID	33208	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular		Included	Included	Included	Included
CID	33212	Insertion of pacemaker pulse generator only; with existing single lead		Included	Included	Included	Included
CID	33213	Insertion of pacemaker pulse generator only; with existing dual leads		Included	Included	Included	Included
CID	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 generator)		Included	Included	Included	Included
CID	33221	Insertion of pacemaker pulse generator only; with existing multiple leads		Included	Included	Included	Included
CID	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 existin		Included	Included	Included	Included
CID	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)	Add-on	Included	Included	Included	Included
CID	33227	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system		Included	Included	Included	Included
CID	33228	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system		Included	Included	Included	Included
CID	33229	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system		Included	Included	Included	Included
CID	33230	Insertion of implantable defibrillator pulse generator only; with existing dual leads		Included	Included	Included	Included
CID	33231	Insertion of implantable defibrillator pulse generator only; with existing multiple leads		Included	Included	Included	Included
CID	33240	Insertion of implantable defibrillator pulse generator only; with existing single lead		Included	Included	Included	Included
CID	33249	Insertion or replacement of permanent implantable defibrillator system, with transvenous lead(s), single or dual chamber		Included	Included	Included	Included
CID	33262	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; single lead system		Included	Included	Included	Included
CID	33263	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; dual lead system		Included	Included	Included	Included
CID	33264	Removal of implantable defibrillator pulse generator with replacement of implantable defibrillator pulse generator; multiple lead system		Included	Included	Included	Included
CID	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		Included	Included	Included	Included
CID	33275	Transcatheter removal of permanent leadless pacemaker, right ventricular		Included	Included	Included	Included
CID	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		Included	Included	Included	Included

Category	CPT®/HCPCS Codes	CPT® / HCPCS Description	Notations	JHP Commercial (ACA)	JHP Medicare	HPP Medicaid CHIP Excluded for Cardiology	DHS Healthy Beginnings
MRI	70336	Magnetic resonance (eg, proton) imaging, temporomandibular joint(s)		Included	Included	Included	Included
CT	70450	Computed tomography, head or brain; without contrast material		Included	Included	Included	Included
CT	70460	Computed tomography, head or brain; with contrast material(s)		Included	Included	Included	Included
CT	70470	Computed tomography, head or brain; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	70480	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material		Included	Included	Included	Included
CT	70481	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; with contrast material(s)		Included	Included	Included	Included
CT	70482	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	70486	Computed tomography, maxillofacial area; without contrast material		Included	Included	Included	Included
CT	70487	Computed tomography, maxillofacial area; with contrast material(s)		Included	Included	Included	Included
CT	70488	Computed tomography, maxillofacial area; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	70490	Computed tomography, soft tissue neck; without contrast material		Included	Included	Included	Included
CT	70491	Computed tomography, soft tissue neck; with contrast material(s)		Included	Included	Included	Included
CT	70492	Computed tomography, soft tissue neck; without contrast material followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	70496	Computed tomographic angiography, head, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
CT	70498	Computed tomographic angiography, neck, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
MRI	70540	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s)		Included	Included	Included	Included
MRI	70542	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; with contrast material(s)		Included	Included	Included	Included
MRI	70543	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	70544	Magnetic resonance angiography, head; without contrast material(s)		Included	Included	Included	Included
MRA	70545	Magnetic resonance angiography, head; with contrast material(s)		Included	Included	Included	Included
MRA	70546	Magnetic resonance angiography, head; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	70547	Magnetic resonance angiography, neck; without contrast material(s)		Included	Included	Included	Included
MRA	70548	Magnetic resonance angiography, neck; with contrast material(s)		Included	Included	Included	Included
MRA	70549	Magnetic resonance angiography, neck; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRI	70551	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material		Included	Included	Included	Included
MRI	70552	Magnetic resonance (eg, proton) imaging, brain (including brain stem); with contrast material(s)		Included	Included	Included	Included
MRI	70553	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material, followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRI	70554	Magnetic resonance imaging, brain, functional MRI; including test selection and administration of repetitive body part movement and/or visual stimulation, not requiring physician or psychologist administration		Included	Included	Included	Included
MRI	70555	Magnetic resonance imaging, brain, functional MRI; requiring physician or psychologist administration of entire neurofunctional testing		Included	Included	Included	Included
CT	71250	Computed tomography, thorax; without contrast material		Included	Included	Included	Included
CT	71260	Computed tomography, thorax, diagnostic; with contrast material(s)		Included	Included	Included	Included
CT	71270	Computed tomography, thorax, diagnostic; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	71271	Computed tomography, thorax, low dose for lung cancer screening, without contrast material(s)		Included	Included	Included	Included
CT	71275	Computed tomographic angiography, chest (noncoronary), with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
MRI	71550	Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); without contrast material(s)		Included	Included	Included	Included
MRI	71551	Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); with contrast material(s)		Included	Included	Included	Included

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MRI	71552	Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	71555	Magnetic resonance angiography, chest (excluding myocardium), with or without contrast material(s)		Included	Included	Included	Included
CT	72125	Computed tomography, cervical spine; without contrast material		Included	Included	Included	Included
CT	72126	Computed tomography, cervical spine; with contrast material		Included	Included	Included	Included
CT	72127	Computed tomography, cervical spine; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	72128	Computed tomography, thoracic spine; without contrast material		Included	Included	Included	Included
CT	72129	Computed tomography, thoracic spine; with contrast material		Included	Included	Included	Included
CT	72130	Computed tomography, thoracic spine; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	72131	Computed tomography, lumbar spine; without contrast material		Included	Included	Included	Included
CT	72132	Computed tomography, lumbar spine; with contrast material		Included	Included	Included	Included
CT	72133	Computed tomography, lumbar spine; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
MRI	72141	Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; without contrast material		Included	Included	Included	Included
MRI	72142	Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; with contrast material(s)		Included	Included	Included	Included
MRI	72146	Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; without contrast material		Included	Included	Included	Included
MRI	72147	Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; with contrast material(s)		Included	Included	Included	Included
MRI	72148	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; without contrast material		Included	Included	Included	Included
MRI	72149	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; with contrast material(s)		Included	Included	Included	Included
MRI	72156	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; cervical		Included	Included	Included	Included
MRI	72157	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; thoracic		Included	Included	Included	Included
MRI	72158	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; lumbar		Included	Included	Included	Included
MRA	72159	Magnetic resonance angiography, spinal canal and contents, with or without contrast material(s)		Included	Included	Included	Included
CT	72191	Computed tomographic angiography, pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing	Add-on	Included	Included	Included	Included
CT	72192	Computed tomography, pelvis; without contrast material	Add-on	Included	Included	Included	Included
CT	72193	Computed tomography, pelvis; with contrast material(s)	Add-on	Included	Included	Included	Included
CT	72194	Computed tomography, pelvis; without contrast material, followed by contrast material(s) and further sections	Add-on	Included	Included	Included	Included
MRI	72195	Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s)		Included	Included	Included	Included
MRI	72196	Magnetic resonance (eg, proton) imaging, pelvis; with contrast material(s)		Included	Included	Included	Included
MRI	72197	Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	72198	Magnetic resonance angiography, pelvis, with or without contrast material(s)		Included	Included	Included	Included
CT	73200	Computed tomography, upper extremity; without contrast material		Included	Included	Included	Included
CT	73201	Computed tomography, upper extremity; with contrast material(s)		Included	Included	Included	Included
CT	73202	Computed tomography, upper extremity; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	73206	Computed tomographic angiography, upper extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
MRI	73218	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s)		Included	Included	Included	Included

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MRI	73219	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; with contrast material(s)		Included	Included	Included	Included
MRI	73220	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRI	73221	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s)		Included	Included	Included	Included
MRI	73222	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; with contrast material(s)		Included	Included	Included	Included
MRI	73223	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	73225	Magnetic resonance angiography, upper extremity, with or without contrast material(s)		Included	Included	Included	Included
CT	73700	Computed tomography, lower extremity; without contrast material		Included	Included	Included	Included
CT	73701	Computed tomography, lower extremity; with contrast material(s)		Included	Included	Included	Included
CT	73702	Computed tomography, lower extremity; without contrast material, followed by contrast material(s) and further sections		Included	Included	Included	Included
CT	73706	Computed tomographic angiography, lower extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
MRI	73718	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s)		Included	Included	Included	Included
MRI	73719	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; with contrast material(s)		Included	Included	Included	Included
MRI	73720	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRI	73721	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material		Included	Included	Included	Included
MRI	73722	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; with contrast material(s)		Included	Included	Included	Included
MRI	73723	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material(s), followed by contrast material(s) and further sequences		Included	Included	Included	Included
MRA	73725	Magnetic resonance angiography, lower extremity, with or without contrast material(s)		Included	Included	Included	Included
CT	74150	Computed tomography, abdomen; without contrast material	Add-on	Included	Included	Included	Included
CT	74160	Computed tomography, abdomen; with contrast material(s)	Add-on	Included	Included	Included	Included
CT	74170	Computed tomography, abdomen; without contrast material, followed by contrast material(s) and further sections	Add-on	Included	Included	Included	Included
CT	74174	Computed tomographic angiography, abdomen and pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
CT	74175	Computed tomographic angiography, abdomen, with contrast material(s), including noncontrast images, if performed, and image postprocessing	Add-on	Included	Included	Included	Included
CT	74176	Computed tomography, abdomen and pelvis; without contrast material		Included	Included	Included	Included
CT	74177	Computed tomography, abdomen and pelvis; with contrast material(s)		Included	Included	Included	Included
CT	74178	Computed tomography, abdomen and pelvis; without contrast material in one or both body regions, followed by contrast material(s) and further sections in one or both body regions		Included	Included	Included	Included
MRI	74181	Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s)		Included	Included	Included	Included
MRI	74182	Magnetic resonance (eg, proton) imaging, abdomen; with contrast material(s)		Included	Included	Included	Included
MRI	74183	Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s), followed by with contrast material(s) and further sequences		Included	Included	Included	Included
MRA	74185	Magnetic resonance angiography, abdomen, with or without contrast material(s)		Included	Included	Included	Included
CT	74261	Computed tomographic (CT) colonography, diagnostic, including image postprocessing; without contrast material		Included	Included	Included	Excluded
CT	74262	Computed tomographic (CT) colonography, diagnostic, including image postprocessing; with contrast material(s) including non-contrast images, if performed		Included	Included	Included	Excluded

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CT	74263	Computed tomographic (CT) colonography, screening, including image postprocessing		Included	Included	Included	Excluded
MRI	74712	Magnetic resonance (eg, proton) imaging, fetal, including placental and maternal pelvic imaging when performed; single or first gestation		Included	Included	Included	Included
MRI	74713	Magnetic resonance (eg, proton) imaging, fetal, including placental and maternal pelvic imaging when performed; each additional gestation (List separately in addition to code for primary procedure)	Add-on	Included	Included	Included	Included
CMRI	75557	Cardiac magnetic resonance imaging for morphology and function without contrast material;		Included	Included	Included	Included
CMRI	75559	Cardiac magnetic resonance imaging for morphology and function without contrast material; with stress imaging		Included	Included	Included	Included
CMRI	75561	Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences;		Included	Included	Included	Included
CMRI	75563	Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences; with stress imaging		Included	Included	Included	Included
CMRI	75565	Cardiac magnetic resonance imaging for velocity flow mapping (List separately in addition to code for primary procedure)	Add-on	Included	Included	Included	Included
CCTA	75571	Computed tomography, heart, without contrast material, with quantitative evaluation of coronary calcium		Included	Included	Included	Excluded
CCTA	75572	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology (including 3D image postprocessing, assessment of cardiac function, and evaluation of venous structures, if performed)		Included	Included	Included	Excluded
CCTA	75573	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease (including 3D image postprocessing, assessment of LV cardiac function, RV structure and function and evaluation)		Included	Included	Included	Excluded
CCTA	75574	Computed tomographic angiography, heart, coronary arteries and bypass grafts (when present), with contrast material, including 3D image postprocessing (including evaluation of cardiac structure and morphology, assessment of cardiac function, and evaluation)		Included	Included	Included	Excluded
CCTA	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		Included	Included	Included	Included
CT	75635	Computed tomographic angiography, abdominal aorta and bilateral iliofemoral lower extremity runoff, with contrast material(s), including noncontrast images, if performed, and image postprocessing		Included	Included	Included	Included
3DI	76376	3D Rendering W/O Postprocessing.		Included	Included	Included	Included
3DI	76377	3D rendering with interpretation and reporting of computed tomography, magnetic resonance imaging, ultrasound, or other tomographic modality with image postprocessing under concurrent supervision; requiring image postprocessing on an independent workstation		Included	Included	Included	Included
CT	76380	Computed tomography, limited or localized follow-up study		Included	Included	Included	Included
MRI	76390	Magnetic resonance spectroscopy		Included	Included	Included	Excluded
MRI	76391	Magnetic resonance (eg, vibration) elastography		Included	Included	Included	Included
CT	76497	Unlisted computed tomography procedure (eg, diagnostic, interventional)		Included	Included	Included	Included
MRI	76498	Unlisted magnetic resonance procedure (eg, diagnostic, interventional)		Included	Included	Included	Included
CT	77012	Computed tomography guidance for needle placement (eg, biopsy, aspiration, injection, localization device), radiological supervision and interpretation		Included	Included	Included	Included
CT	77013	Computed tomography guidance for, and monitoring of, parenchymal tissue ablation		Included	Included	Included	Included
MR	77021	Magnetic resonance imaging guidance for needle placement (eg, for biopsy, needle aspiration, injection, or placement of localization device) radiological supervision and interpretation		Included	Included	Included	Included
MR	77022	Magnetic resonance imaging guidance for, and monitoring of, parenchymal tissue ablation		Included	Included	Included	Included
BMRI	77046	Magnetic resonance imaging, breast, without contrast material; unilateral		Included	Included	Included	Included
BMRI	77047	Magnetic resonance imaging, breast, without contrast material; bilateral		Included	Included	Included	Included

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BMRI	77048	Magnetic resonance imaging, breast, without and with contrast material(s), including computer-aided detection (CAD real-time lesion detection, characterization and pharmacokinetic analysis), when performed; unilateral		Included	Included	Included	Included
BMRI	77049	Magnetic resonance imaging, breast, without and with contrast material(s), including computer-aided detection (CAD real-time lesion detection, characterization and pharmacokinetic analysis), when performed; bilateral		Included	Included	Included	Included
CT	77078	Computed tomography, bone mineral density study, 1 or more sites, axial skeleton (eg, hips, pelvis, spine)		Included	Included	Included	Included
MRI	77084	Magnetic resonance (eg, proton) imaging, bone marrow blood supply		Included	Included	Included	Included
CPET	78429	Myocardial imaging, positron emission tomography (PET), metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), single study; with concurrently acquired computed tomography transmission scan		Included	Included	Included	Included
CPET	78430	Myocardial imaging, positron emission tomography (PET), perfusion study (including ventricular wall motion[s] and/or ejection fraction[s], when performed); single study, at rest or stress (exercise or pharmacologic), with concurrently acquired computed tomography transmission scan		Included	Included	Included	Included
CPET	78431	Myocardial imaging, positron emission tomography (PET), perfusion study (including ventricular wall motion[s] and/or ejection fraction[s], when performed); multiple studies at rest and stress (exercise or pharmacologic), with concurrently acquired computed tomography transmission scan		Included	Included	Included	Included
CPET	78432	Myocardial imaging, positron emission tomography (PET), combined perfusion with metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), dual radiotracer (eg, myocardial viability);		Included	Included	Included	Included
CPET	78433	Myocardial imaging, positron emission tomography (PET), combined perfusion with metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), dual radiotracer (eg, myocardial viability); with concurrently acquired computed tomography transmission scan		Included	Included	Included	Included
CPET	78434	Absolute quantitation of myocardial blood flow (AQMBF), positron emission tomography (PET), rest and pharmacologic stress (List separately in addition to code for primary procedure)	Add-on	Included	Included	Included	Included
Nuclear Cardiac Imaging	78451	Myocardial perfusion imaging, tomographic (SPECT) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (		Included	Included	Included	Included
Nuclear Cardiac Imaging	78452	Myocardial perfusion imaging, tomographic (SPECT) (including attenuation correction, qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or		Included	Included	Included	Included
Nuclear Cardiac Imaging	78453	Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); single study, at rest or stress (exercise or pharmacologic)	Add-on	Included	Included	Included	Included
Nuclear Cardiac Imaging	78454	Myocardial perfusion imaging, planar (including qualitative or quantitative wall motion, ejection fraction by first pass or gated technique, additional quantification, when performed); multiple studies, at rest and/or stress (exercise or pharmacologic) an	Add-on	Included	Included	Included	Included
CPET	78459	Myocardial imaging, positron emission tomography (PET), metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), single study		Included	Included	Included	Included
Nuclear Cardiac Imaging	78466	Myocardial imaging, infarct avid, planar; qualitative or quantitative		Included	Included	Included	Included
Nuclear Cardiac Imaging	78468	Myocardial imaging, infarct avid, planar; with ejection fraction by first pass technique		Included	Included	Included	Included
Nuclear Cardiac Imaging	78469	Myocardial imaging, infarct avid, planar; tomographic SPECT with or without quantification		Included	Included	Included	Included
Nuclear Cardiac Imaging	78472	Cardiac blood pool imaging, gated equilibrium; planar, single study at rest or stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without additional quantitative processing		Included	Included	Included	Included

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Nuclear Cardiac Imaging	78473	Cardiac blood pool imaging, gated equilibrium; multiple studies, wall motion study plus ejection fraction, at rest and stress (exercise and/or pharmacologic), with or without additional quantification		Included	Included	Included	Included
Nuclear Cardiac Imaging	78481	Cardiac blood pool imaging (planar), first pass technique; single study, at rest or with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification		Included	Included	Included	Included
Nuclear Cardiac Imaging	78483	Cardiac blood pool imaging (planar), first pass technique; multiple studies, at rest and with stress (exercise and/or pharmacologic), wall motion study plus ejection fraction, with or without quantification		Included	Included	Included	Included
CPET	78491	Myocardial imaging, positron emission tomography (PET), perfusion study(including ventricular wall motion[s] and/or ejection fraction[s], when performed); single study, at rest or stress (exercise or pharmacologic)		Included	Included	Included	Included
CPET	78492	Myocardial imaging, positron emission tomography (PET), perfusion study(including ventricular wall motion[s] and/or ejection fraction[s], when performed); multiple studies at rest and/or stress (exercise or pharmacologic)		Included	Included	Included	Included
Nuclear Cardiac Imaging	78494	Cardiac blood pool imaging, gated equilibrium, SPECT, at rest, wall motion study plus ejection fraction, with or without quantitative processing		Included	Included	Included	Included
Nuclear Cardiac Imaging	78496	Cardiac blood pool imaging, gated equilibrium, single study, at rest, with right ventricular ejection fraction by first pass technique (List separately in addition to code for primary procedure)	Add-on	Included	Included	Included	Included
Nuclear Cardiac Imaging	78499	Unlisted cardiovascular procedure, diagnostic nuclear medicine		Included	Included	Included	Included
PET	78608	Brain imaging, positron emission tomography (PET); metabolic evaluation		Included	Included	Included	Included
PET	78609	Brain imaging, positron emission tomography (PET); perfusion evaluation		Included	Included	Included	Included
PET	78811	Positron emission tomography (PET) imaging; limited area (eg, chest, head/neck)		Included	Included	Included	Included
PET	78812	Positron emission tomography (PET) imaging; skull base to mid-thigh		Included	Included	Included	Included
PET	78813	Positron emission tomography (PET) imaging; whole body		Included	Included	Included	Included
PETCT	78814	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; limited area (eg, chest, head/neck)		Included	Included	Included	Included
PETCT	78815	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; skull base to mid-thigh		Included	Included	Included	Included
PETCT	78816	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; whole body		Included	Included	Included	Included
ECHO	93303	Transthoracic echocardiography for congenital cardiac anomalies; complete		Excluded	Excluded	Excluded	Excluded
ECHO	93304	Transthoracic echocardiography for congenital cardiac anomalies; follow-up or limited study		Excluded	Excluded	Excluded	Excluded
ECHO	93306	Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, complete, with spectral Doppler echocardiography, and with color flow Doppler echocardiography		Excluded	Excluded	Excluded	Excluded
ECHO	93307	Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, complete, without spectral or color Doppler echocardiography		Excluded	Excluded	Excluded	Excluded
ECHO	93308	Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, follow-up or limited study		Excluded	Excluded	Excluded	Excluded
ECHO	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 (List separately in addition to code for echocardiographic imaging)		Excluded	Excluded	Excluded	Excluded
ECHO	93320	Doppler echocardiography, pulsed wave and/or continuous wave with spectral display (List separately in addition to codes for echocardiographic imaging); complete	Add-on	Excluded	Excluded	Excluded	Excluded
ECHO	93321	Doppler echocardiography, pulsed wave and/or continuous wave with spectral display (List separately in addition to codes for echocardiographic imaging); follow-up or limited study	Add-on	Excluded	Excluded	Excluded	Excluded



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ECHO	93325	Doppler echocardiography color flow velocity mapping (List separately in addition to codes for echocardiography)	Add-on	Excluded	Excluded	Excluded	Excluded
Stress Echo	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		Included	Included	Included	Included
Stress Echo	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		Included	Included	Included	Included
ECHO	93356	Myocardial strain imaging using speckle tracking-derived assessment of myocardial mechanics (List separately in addition to codes for echocardiography imaging)		Excluded	Excluded	Excluded	Excluded
Diagnostic Heart Cath	93451	Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed		Included	Included	Included	Included
Diagnostic Heart Cath	93452	Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed		Included	Included	Included	Included
Diagnostic Heart Cath	93453	Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed		Included	Included	Included	Included
Diagnostic Heart Cath	93454	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;		Included	Included	Included	Included
Diagnostic Heart Cath	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, ven		Included	Included	Included	Included
Diagnostic Heart Cath	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		Included	Included	Included	Included
Diagnostic Heart Cath	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, ven		Included	Included	Included	Included
Diagnostic Heart Cath	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 ven		Included	Included	Included	Included
Diagnostic Heart Cath	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 ven		Included	Included	Included	Included
Diagnostic Heart Cath	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) fo		Included	Included	Included	Included
Diagnostic Heart Cath	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) fo		Included	Included	Included	Included
Diagnostic Heart Cath	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		Included	Included	Included	Included
Diagnostic Heart Cath	93594	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		Included	Included	Included	Included
Diagnostic Heart Cath	93595	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		Included	Included	Included	Included
Diagnostic Heart Cath	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		Included	Included	Included	Included
Diagnostic Heart Cath	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); connections abnormal native connections		Included	Included	Included	Included



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CT	0042T	Cerebral perfusion analysis using computed tomography with contrast administration, including post-processing of parametric maps with determination of cerebral blood flow, cerebral blood volume, and mean transit time		Included	Included	Included	Excluded
CID	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)		Included	Included	Included	Included
CID	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		Included	Included	Included	Included
CID	0409T	Insertion or replacement of permanent cardiac contractility modulation system, including contractility evaluation when performed, and programming of sensing and therapeutic parameters; pulse generator only		Included	Included	Included	Included
CID	0515T	Insertion of wireless cardiac stimulator for left ventricular pacing, including device interrogation and programming, and imaging supervision and interpretation, when performed; complete system (includes electrode and generator [transmitter and battery])		Included	Included	Included	Included
CID	0516T	Insertion of wireless cardiac stimulator for left ventricular pacing, including device interrogation and programming, and imaging supervision and interpretation, when performed; electrode only		Included	Included	Included	Included
CID	0517T	Insertion of wireless cardiac stimulator for left ventricular pacing, including device interrogation and programming, and imaging supervision and interpretation, when performed; pulse generator component(s) (battery and/or transmitter) only		Included	Included	Included	Included
CID	0519T	Removal and replacement of wireless cardiac stimulator for left ventricular pacing; pulse generator component(s) (battery and/or transmitter)		Included	Included	Included	Included
CID	0520T	Removal and replacement of wireless cardiac stimulator for left ventricular pacing; pulse generator component(s) (battery and/or transmitter), including placement of a new electrode		Included	Included	Included	Included
CID	0571T	Insertion or replacement of implantable cardioverter-defibrillator system with substernal electrode(s), including all imaging guidance and electrophysiological evaluation (includes defibrillation threshold evaluation, induction of arrhythmia, evaluation of sensing for arrhythmia termination, and programming or reprogramming of sensing or therapeutic parameters), when performed		Included	Included	Included	Included
MRI	0609T	Magnetic resonance spectroscopy, determination and localization of discogenic pain (cervical, thoracic, or lumbar); acquisition of single voxel data, per disc, on biomarkers (ie, lactic acid, carbohydrate, alanine, laal, propionic acid, proteoglycan, and collagen) in at least 3 discs		Included	Included	Included	Included
MRI	0610T	Magnetic resonance spectroscopy, determination and localization of discogenic pain (cervical, thoracic, or lumbar); transmission of biomarker data for software analysis		Included	Included	Included	Included
MRI	0611T	Magnetic resonance spectroscopy, determination and localization of discogenic pain (cervical, thoracic, or lumbar); postprocessing for algorithmic analysis of biomarker data for determination of relative chemical differences between discs		Included	Included	Included	Included
MRI	0612T	Magnetic resonance spectroscopy, determination and localization of discogenic pain (cervical, thoracic, or lumbar); interpretation and report		Included	Included	Included	Included
CID	0614T	Removal and replacement of substernal implantable defibrillator pulse generator		Included	Included	Included	Included
CCTA	0623T	Automated quantification and characterization of coronary atherosclerotic plaque to assess severity of coronary disease, using data from coronary computed tomographic angiography; data preparation and transmission, computerized analysis of data, with review of computerized analysis output to reconcile discordant data, interpretation and report		Included	Included	Included	Included
CCTA	0624T	Automated quantification and characterization of coronary atherosclerotic plaque to assess severity of coronary disease, using data from coronary computed tomographic angiography; data preparation and transmission		Included	Included	Included	Included
CCTA	0625T	Automated quantification and characterization of coronary atherosclerotic plaque to assess severity of coronary disease, using data from coronary computed tomographic angiography; computerized analysis of data from coronary computed tomographic angiography		Included	Included	Included	Included

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CCTA	0626T	Automated quantification and characterization of coronary atherosclerotic plaque to assess severity of coronary disease, using data from coronary computed tomographic angiography; review of computerized analysis output to reconcile discordant data, interpretation and report		Included	Included	Included	Included
CT	0633T	Computed tomography, breast, including 3D rendering, when performed, unilateral; without contrast material		Included	Included	Included	Included
CT	0634T	Computed tomography, breast, including 3D rendering, when performed, unilateral; with contrast material(s)		Included	Included	Included	Included
CT	0635T	Computed tomography, breast, including 3D rendering, when performed, unilateral; without contrast, followed by contrast material(s)		Included	Included	Included	Included
CT	0636T	Computed tomography, breast, including 3D rendering, when performed, bilateral; without contrast material(s)		Included	Included	Included	Included
CT	0637T	Computed tomography, breast, including 3D rendering, when performed, bilateral; with contrast material(s)		Included	Included	Included	Included
CT	0638T	Computed tomography, breast, including 3D rendering, when performed, bilateral; without contrast, followed by contrast material(s)		Included	Included	Included	Included
MRI	0648T	Quantitative magnetic resonance for analysis of tissue composition (eg, fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained without diagnostic MRI examination of the same anatomy (eg, organ, gland, tissue, target structure) during the same session; single organ.		Included	Included	Included	Included
MRI	0649T	Quantitative magnetic resonance for analysis of tissue composition (e.g., fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained with diagnostic MRI examination of the same anatomy (e.g., organ, gland, tissue, target structure) (List separately in addition to code for primary procedure).		Included	Included	Included	Included
MRI	0697T	Quantitative magnetic resonance for analysis of tissue composition (eg, fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained without diagnostic MRI examination of the same anatomy (eg, organ, gland, tissue, target structure) during the same session; multiple organs		Included	Included	Included	Included
MRI	0698T	Quantitative magnetic resonance for analysis of tissue composition (eg, fat, iron, water content), including multiparametric data acquisition, data preparation and transmission, interpretation and report, obtained with diagnostic MRI examination of the same anatomy (eg, organ, gland, tissue, target structure); multiple organs (List separately in addition to code for primary procedure)		Included	Included	Included	Included
CT (CTA)	0710T	Noninvasive arterial plaque analysis using software processing of data from non-coronary computerized tomography angiography; including data preparation and transmission, quantification of the structure and composition of the vessel wall and assessment for lipid-rich necrotic core plaque to assess atherosclerotic plaque stability, data review, interpretation and report		Included	Included	Included	Included
CT (CTA)	0711T	Noninvasive arterial plaque analysis using software processing of data from non-coronary computerized tomography angiography; data preparation and transmission		Included	Included	Included	Included
CT (CTA)	0712T	Noninvasive arterial plaque analysis using software processing of data from non-coronary computerized tomography angiography; quantification of the structure and composition of the vessel wall and assessment for lipid-rich necrotic core plaque to assess atherosclerotic plaque stability		Included	Included	Included	Included
CT (CTA)	0713T	Noninvasive arterial plaque analysis using software processing of data from non-coronary computerized tomography angiography; data review, interpretation and report		Included	Included	Included	Included
NUC CARD	0742T	Absolute quantitation of myocardial blood flow (AQMBF), single-photon emission computed tomography (SPECT), with exercise or pharmacologic stress, and at rest, when performed (List separately in addition to code for primary procedure)		Included	Included	Included	Included
CID	0795T	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; complete system (ie, right atrial and right ventricular pacemaker components)		Included	Included	Included	Included
CID	0796T	Transcatheter insertion of right atrial pacemaker component (when an existing right ventricular single leadless pacemaker exists to create a dual-chamber leadless pacemaker system)		Included	Included	Included	Included

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CID	0797T	Transcatheter insertion of right ventricular pacemaker component (when part of a dual-chamber leadless pacemaker system)		Included	Included	Included	Included
CID	0801T	Transcatheter removal and replacement 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; dual-chamber system (ie, right atrial and right ventricular pacemaker components)		Included	Included	Included	Included
CID	0802T	Transcatheter removal and replacement of right atrial pacemaker component		Included	Included	Included	Included
CID	0803T	Transcatheter removal and replacement of right ventricular pacemaker component (when part of a dual-chamber leadless pacemaker system)		Included	Included	Included	Included
CID	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		Included	Included	Included	Included
CID	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, interrogation or programming), when performed		Included	Included	Included	Included
MRI	0865T	Quantitative magnetic resonance image (MRI) analysis of the brain with comparison to prior magnetic resonance (MR) study(ies), including lesion identification, characterization, and quantification, with brain volume(s) quantification and/or severity score, when performed, data preparation and transmission, interpretation and report, obtained without diagnostic MRI examination of the brain during the same session		Included	Included	Included	Included
MRI	0866T	Quantitative magnetic resonance image (MRI) analysis of the brain with comparison to prior magnetic resonance (MR) study(ies), including lesion detection, characterization, and quantification, with brain volume(s) quantification and/or severity score, when performed, data preparation and transmission, interpretation and report, obtained with diagnostic MRI examination of the brain (List separately in addition to code for primary procedure)		Included	Included	Included	Included
CID	0915T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; pulse generator and dual transvenous electrodes/leads (pacing and defibrillation)	EUI	Included	Included	Included	Included
CID	0916T	Insertion of permanent cardiac contractility modulation-defibrillation system component(s), including fluoroscopic guidance, and evaluation and programming of sensing and therapeutic parameters; pulse generator only	EUI	Included	Included	Included	Included
CID	0923T	Removal and replacement of permanent cardiac contractility modulation-defibrillation pulse generator only	EUI	Included	Included	Included	Included
CID	0933T	Transcatheter implantation of wireless left atrial pressure sensor for long-term left atrial pressure monitoring, including sensor calibration and deployment, right heart catheterization, transseptal puncture, imaging guidance, and radiological supervision and interpretation	EUI	Included	Included	Included	Included
CMRI	C9762	Cardiac magnetic resonance imaging for morphology and function, quantification of segmental dysfunction; with strain imaging		Excluded	Excluded	Excluded	Excluded
CMRI	C9763	Cardiac magnetic resonance imaging for morphology and function, quantification of segmental dysfunction; with stress imaging		Excluded	Excluded	Excluded	Excluded
MRI	C9791	Magnetic resonance imaging with inhaled hyperpolarized xenon-129 contrast agent, chest, including preparation and administration of agent		Included	Included	Included	Included
PET	G0219	Pet imaging whole body; melanoma for non-covered indications		Included	Included	Included	Included
PET	G0235	Pet imaging, any site, not otherwise specified		Included	Included	Included	Included
MR	S8035	Magnetic source imaging		Included	Included	Included	Excluded
MRI	S8037	Magnetic resonance cholangiopancreatography (MRCP)	Add-on	Included	Included	Included	Excluded
MRI	S8042	Magnetic resonance imaging (MRI), low-field	Add-on	Included	Included	Included	Excluded
CT	S8092	Electron beam computed tomography (also known as ultrafast ct, cine ct)		Included	Included	Included	Excluded