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## OVERVIEW

This policy documents the cardiology and radiology services in which prior authorization is required by the Blue Cross & Blue Shield of Rhode Island (BCBSRI) through the Cardiology and Radiology Management Program vendor for BlueCHiP for Medicare and Commercial Products.

## MEDICAL CRITERIA

### BlueCHiP for Medicare and Commercial Products

Clinical guidelines for approval of the tests listed below are found on the Cardiology and Radiology Management Program vendor's website which can be accessed at [evicore.com](http://evicore.com) or calling 888-233-8158 or faxing to 888-693-3210.

## PRIOR AUTHORIZATION

### BlueCHiP for Medicare and Commercial Products

Prior authorization is required for BlueCHiP for Medicare and recommended for Commercial Products.

**NOTE:** This prior authorization requirement does not apply to services rendered in an emergency room, observation or inpatient setting.

## POLICY STATEMENT

### BlueCHiP for Medicare and Commercial Products

The physician who orders the cardiology or radiology services must initiate and complete the authorization with the BCBSRI Cardiology and Radiology Management Program vendor. The ordering physician must maintain all documentation to support the clinical appropriateness of the study that is ordered and will complete the authorization accurately.

### For BCBSRI Participating Providers

Imaging facilities/hospitals are not allowed to obtain clinical authorization on behalf of the ordering physician. In no circumstance, unless expressly agreed to by BCBSRI in writing, will a physician use a representative of an imaging facility/hospital or anyone with a relationship to an imaging facility/hospital, to facilitate any portion of the authorization process with the Cardiology and Radiology Management Program vendor, including any element of the preparation of necessary documentation of clinical appropriateness. If an imaging facility/hospital is found to be supporting, without BCBSRI express written agreement, any portion of the authorization process, BCBSRI will deem the action a violation of this policy and severe action will be taken up to and including termination from the BCBSRI provider network. If a facility/hospital provides a cardiology or radiology service that has not been authorized, the service will be denied as the financial liability of the facility/hospital and may not be billed to the member.

## OVERAGE

Benefits may vary between groups/contracts. Please refer to the appropriate section of the Benefit Booklet, Evidence of Coverage or Subscriber Agreement for applicable Diagnostic Imaging services.

**CODING:**

The following codes are covered if approved by the BCBSRI's Cardiology and Radiology Management Program vendor.

<b>CPT® Code</b>	<b>CPT® Code Description</b>
<b>33206</b>	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial
<b>33207</b>	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular
<b>33208</b>	Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular
<b>33212</b>	Insertion of pacemaker pulse generator only; with existing single lead
<b>33213</b>	Insertion of pacemaker pulse generator only; with existing dual leads
<b>33214</b>	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)
<b>33221</b>	Insertion of pacemaker pulse generator only; with existing multiple leads
<b>33224</b>	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or pacing cardioverter-defibrillator pulse generator (including revision of pocket, removal, insertion, and/or replacement of existing generator)
<b>33225</b>	Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of pacing cardioverter-defibrillator or pacemaker pulse generator (including upgrade to dual chamber system and pocket revision) (list separately in addition to code for primary procedure)
<b>33227</b>	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; single lead system
<b>33228</b>	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; dual lead system
<b>33229</b>	Removal of permanent pacemaker pulse generator with replacement of pacemaker pulse generator; multiple lead system
<b>33230</b>	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing dual leads
<b>33231</b>	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing multiple leads
<b>33240</b>	Insertion of pacing cardioverter-defibrillator pulse generator only; with existing single lead
<b>33249</b>	Insertion or replacement of permanent pacing cardioverter-defibrillator system with transvenous lead(s), single or dual chamber
<b>33262</b>	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; single lead system
<b>33263</b>	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; dual lead system
<b>33264</b>	Removal of pacing cardioverter-defibrillator pulse generator with replacement of pacing cardioverter-defibrillator pulse generator; multiple lead system
<b>33270</b>	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
<b>33274</b>	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
<b>33275</b>	Transcatheter removal of permanent leadless pacemaker, right ventricular
<b>33289</b>	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
<b>70336</b>	Magnetic resonance (eg, proton) imaging, temporomandibular joint(s)
<b>70450</b>	Computed tomography, head or brain; without contrast material
<b>70460</b>	Computed tomography, head or brain; with contrast material(s)
<b>70470</b>	Computed tomography, head or brain; without contrast material, followed by contrast material(s) and further sections
<b>70480</b>	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material
<b>70481</b>	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; with contrast material(s)

<b>70482</b>	Computed tomography, orbit, sella, or posterior fossa or outer, middle, or inner ear; without contrast material, followed by contrast material(s) and further sections
<b>70486</b>	Computed tomography, maxillofacial area; without contrast material
<b>70487</b>	Computed tomography, maxillofacial area; with contrast material(s)
<b>70488</b>	Computed tomography, maxillofacial area; without contrast material, followed by contrast material(s) and further sections
<b>70490</b>	Computed tomography, soft tissue neck; without contrast material
<b>70491</b>	Computed tomography, soft tissue neck; with contrast material(s)
<b>70492</b>	Computed tomography, soft tissue neck; without contrast material followed by contrast material(s) and further sections
<b>70496</b>	Computed tomographic angiography, head, with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>70498</b>	Computed tomographic angiography, neck, with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>70540</b>	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s)
<b>70542</b>	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; with contrast material(s)
<b>70543</b>	Magnetic resonance (eg, proton) imaging, orbit, face, and/or neck; without contrast material(s), followed by contrast material(s) and further sequences
<b>70544</b>	Magnetic resonance angiography, head; without contrast material(s)
<b>70545</b>	Magnetic resonance angiography, head; with contrast material(s)
<b>70546</b>	Magnetic resonance angiography, head; without contrast material(s), followed by contrast material(s) and further sequences
<b>70547</b>	Magnetic resonance angiography, neck; without contrast material(s)
<b>70548</b>	Magnetic resonance angiography, neck; with contrast material(s)
<b>70549</b>	Magnetic resonance angiography, neck; without contrast material(s), followed by contrast material(s) and further sequences
<b>70551</b>	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material
<b>70552</b>	Magnetic resonance (eg, proton) imaging, brain (including brain stem); with contrast material(s)
<b>70553</b>	Magnetic resonance (eg, proton) imaging, brain (including brain stem); without contrast material, followed by contrast material(s) and further sequences
<b>70554</b>	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
<b>70555</b>	Magnetic resonance imaging, brain, functional MRI; requiring physician or psychologist administration of entire neurofunctional testing
<b>71250</b>	Computed tomography, thorax; without contrast material
<b>71260</b>	Computed tomography, thorax; with contrast material(s)
<b>71270</b>	Computed tomography, thorax; without contrast material, followed by contrast material(s) and further sections
<b>71275</b>	Computed tomographic angiography, chest (noncoronary), with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>71550</b>	Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); without contrast material(s)
<b>71551</b>	Magnetic resonance (eg, proton) imaging, chest (eg, for evaluation of hilar and mediastinal lymphadenopathy); with contrast material(s)
<b>71552</b>	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
<b>71555</b>	Magnetic resonance angiography, chest (excluding myocardium), with or without contrast material(s)
<b>72125</b>	Computed tomography, cervical spine; without contrast material
<b>72126</b>	Computed tomography, cervical spine; with contrast material
<b>72127</b>	Computed tomography, cervical spine; without contrast material, followed by contrast material(s) and further sections
<b>72128</b>	Computed tomography, thoracic spine; without contrast material
<b>72129</b>	Computed tomography, thoracic spine; with contrast material
<b>72130</b>	Computed tomography, thoracic spine; without contrast material, followed by contrast material(s) and further sections

<b>72131</b>	Computed tomography, lumbar spine; without contrast material
<b>72132</b>	Computed tomography, lumbar spine; with contrast material
<b>72133</b>	Computed tomography, lumbar spine; without contrast material, followed by contrast material(s) and further sections
<b>72141</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; without contrast material
<b>72142</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, cervical; with contrast material(s)
<b>72146</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; without contrast material
<b>72147</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, thoracic; with contrast material(s)
<b>72148</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; without contrast material
<b>72149</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, lumbar; with contrast material(s)
<b>72156</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; cervical
<b>72157</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; thoracic
<b>72158</b>	Magnetic resonance (eg, proton) imaging, spinal canal and contents, without contrast material, followed by contrast material(s) and further sequences; lumbar
<b>72159</b>	Magnetic resonance angiography, spinal canal and contents, with or without contrast material(s)
<b>72191</b>	Computed tomographic angiography, pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>72192</b>	Computed tomography, pelvis; without contrast material
<b>72193</b>	Computed tomography, pelvis; with contrast material(s)
<b>72194</b>	Computed tomography, pelvis; without contrast material, followed by contrast material(s) and further sections
<b>72195</b>	Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s)
<b>72196</b>	Magnetic resonance (eg, proton) imaging, pelvis; with contrast material(s)
<b>72197</b>	Magnetic resonance (eg, proton) imaging, pelvis; without contrast material(s), followed by contrast material(s) and further sequences
<b>72198</b>	Magnetic resonance angiography, pelvis, with or without contrast material(s)
<b>73200</b>	Computed tomography, upper extremity; without contrast material
<b>73201</b>	Computed tomography, upper extremity; with contrast material(s)
<b>73202</b>	Computed tomography, upper extremity; without contrast material, followed by contrast material(s) and further sections
<b>73206</b>	Computed tomographic angiography, upper extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>73218</b>	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s)
<b>73219</b>	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; with contrast material(s)
<b>73220</b>	Magnetic resonance (eg, proton) imaging, upper extremity, other than joint; without contrast material(s), followed by contrast material(s) and further sequences
<b>73221</b>	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s)
<b>73222</b>	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; with contrast material(s)
<b>73223</b>	Magnetic resonance (eg, proton) imaging, any joint of upper extremity; without contrast material(s), followed by contrast material(s) and further sequences
<b>73225</b>	Magnetic resonance angiography, upper extremity, with or without contrast material(s)
<b>73700</b>	Computed tomography, lower extremity; without contrast material
<b>73701</b>	Computed tomography, lower extremity; with contrast material(s)
<b>73702</b>	Computed tomography, lower extremity; without contrast material, followed by contrast material(s) and further sections
<b>73706</b>	Computed tomographic angiography, lower extremity, with contrast material(s), including noncontrast images, if performed, and image postprocessing
<b>73718</b>	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s)
<b>73719</b>	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; with contrast material(s)
<b>73720</b>	Magnetic resonance (eg, proton) imaging, lower extremity other than joint; without contrast material(s), followed by contrast material(s) and further sequences

73721	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material
73722	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; with contrast material(s)
73723	Magnetic resonance (eg, proton) imaging, any joint of lower extremity; without contrast material(s), followed by contrast material(s) and further sequences
73725	Magnetic resonance angiography, lower extremity, with or without contrast material(s)
74150	Computed tomography, abdomen; without contrast material
74160	Computed tomography, abdomen; with contrast material(s)
74170	Computed tomography, abdomen; without contrast material, followed by contrast material(s) and further sections
74174	Computed tomographic angiography, abdomen and pelvis, with contrast material(s), including noncontrast images, if performed, and image postprocessing
74175	Computed tomographic angiography, abdomen, with contrast material(s), including noncontrast images, if performed, and image postprocessing
74176	Computed tomography, abdomen and pelvis; without contrast material
74177	Computed tomography, abdomen and pelvis; with contrast material(s)
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
74181	Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s)
74182	Magnetic resonance (eg, proton) imaging, abdomen; with contrast material(s)
74183	Magnetic resonance (eg, proton) imaging, abdomen; without contrast material(s), followed by with contrast material(s) and further sequences
74185	Magnetic resonance angiography, abdomen, with or without contrast material(s)
74261	Computed tomographic (CT) colonography, diagnostic, including image postprocessing; without contrast material
74262	Computed tomographic (CT) colonography, diagnostic, including image postprocessing; with contrast material(s) including non-contrast images, if performed
74263	Computed tomographic (CT) colonography, screening, including image postprocessing
74712	Magnetic resonance (eg, proton) imaging, fetal, including placental and maternal pelvic imaging when performed; single or first gestation
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)
75557	Cardiac magnetic resonance imaging for morphology and function without contrast material;
75559	Cardiac magnetic resonance imaging for morphology and function without contrast material; with stress imaging
75561	Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences;
75563	Cardiac magnetic resonance imaging for morphology and function without contrast material(s), followed by contrast material(s) and further sequences; with stress imaging
75565	Cardiac magnetic resonance imaging for velocity flow mapping (List separately in addition to code for primary procedure)
75571	Computed tomography, heart, without contrast material, with quantitative evaluation of coronary calcium
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)
75573	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease
75574	Computed tomographic angiography, heart, coronary arteries and bypass grafts (when present), with contrast material, including 3D image postprocessing
75635	Computed tomographic angiography, abdominal aorta and bilateral iliofemoral lower extremity runoff, with contrast material(s), including noncontrast images, if performed, and image postprocessing
76376	3D rendering with interpretation and reporting of computed tomography, magnetic resonance imaging, ultrasound, or other tomographic modality with image postprocessing under concurrent supervision; not requiring image postprocessing on an independent workstation
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
76380	Computed tomography, limited or localized follow-up study

<b>76390</b>	Magnetic resonance spectroscopy
<b>76391</b>	Magnetic resonance (eg, vibration) elastography
<b>76497</b>	Unlisted computed tomography procedure (eg, diagnostic, interventional)
<b>76498</b>	Unlisted magnetic resonance procedure (eg, diagnostic, interventional)
<b>77011</b>	Computed tomography guidance for stereotactic localization
<b>77012</b>	Computed tomography guidance for needle placement (eg, biopsy, aspiration, injection, localization device), radiological supervision and interpretation
<b>77021</b>	Magnetic resonance imaging guidance for needle placement (eg, for biopsy, needle aspiration, injection, or placement of localization device) radiological supervision and interpretation
<b>77046</b>	Magnetic resonance imaging, breast, without contrast material; unilateral
<b>77047</b>	Magnetic resonance imaging, breast, without contrast material; bilateral
<b>77048</b>	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
<b>77049</b>	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
<b>77084</b>	Magnetic resonance (eg, proton) imaging, bone marrow blood supply
<b>78013</b>	Thyroid imaging (including vascular flow, when performed)
<b>78014</b>	Thyroid imaging (including vascular flow, when performed); with single or multiple uptake(s) quantitative measurement(s) (including stimulation, suppression, or discharge, when performed)
<b>78015</b>	Thyroid Met Imaging
<b>78016</b>	Thyroid Met Imaging With Additional Studies
<b>78018</b>	Thyroid Scan Whole Body
<b>78070</b>	Parathyroid planar imaging (including subtraction, when performed)
<b>78071</b>	Parathyroid planar imaging (including subtraction, when performed); with tomographic (SPECT)
<b>78072</b>	Parathyroid planar imaging (including subtraction, when performed); with tomographic (SPECT), and concurrently acquired computed tomography (CT) for anatomical localization
<b>78075</b>	Adrenal Nuclear Imaging
<b>78102</b>	Bone Marrow Imaging, Limited
<b>78103</b>	Bone Marrow Imaging, Multiple
<b>78140</b>	Labeled Red Cell Sequestration
<b>78185</b>	Spleen Imaging With & Without Vascular Flow
<b>78195</b>	Lymph System Imaging
<b>78201</b>	Liver Imaging
<b>78202</b>	Liver Imaging With Flow
<b>78206</b>	Liver Imaging SPECT With Vasulcar Flow
<b>78215</b>	Liver & Spleen Imaging
<b>78216</b>	Liver & Spleen Imaging With Flow
<b>78226</b>	Hepatobiliary system imaging, including gallbladder when present;
<b>78230</b>	Salivary Gland Imaging
<b>78231</b>	Serial Salivary Gland
<b>78232</b>	Salivary Gland Function Exam
<b>78258</b>	Esophogus Motility Study
<b>78261</b>	Gastric Mucosa Imaging
<b>78262</b>	Gastroesophageal Reflux Exam
<b>78264</b>	Gastric Emptying Study
<b>78265</b>	Gastric emptying imaging study (eg, solid, liquid, or both); with small bowel transit

78266	Gastric emptying imaging study (eg, solid, liquid, or both); with small bowel and colon transit, multiple days
78278	GI Bleeder Scan
78290	Meckels Diverticulum Imaging
78291	Leveen Shunt Patency Exam
78300	Bone Or Joint Imaging Limited
78305	Bone Or Joint Imaging Multiple
78306	Bone Scan Whole Body
78315	Bone Scan 3 Phase Study
78414	Non-Imaging Heart Function
78428	Cardiac Shunt Imaging
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);
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
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)
78445	Radionuclide Venogram Non-Cardiac
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
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 or stress
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)
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)
78457	Venous Thrombosis Imaging Unilateral
78458	Venous Thrombosis Images, Bilateral
78459	Myocardial imaging, positron emission tomography (PET), metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), single study
78466	Myocardial imaging, infarct avid, planar; qualitative or quantitative
78468	Myocardial imaging, infarct avid, planar; with ejection fraction by first pass technique
78469	Myocardial imaging, infarct avid, planar; tomographic SPECT with or without quantification
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
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
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
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
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)
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)
78494	Cardiac blood pool imaging, gated equilibrium, SPECT, at rest, wall motion study plus ejection fraction, with or without quantitative processing
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)

<b>78499</b>	Unlisted cardiovascular procedure, diagnostic nuclear medicine
<b>78579</b>	Pulmonary ventilation imaging (eg, aerosol or gas)
<b>78580</b>	Pulmonary perfusion imaging (eg, particulate)
<b>78582</b>	Pulmonary ventilation (eg, aerosol or gas) and perfusion imaging
<b>78597</b>	Quantitative differential pulmonary perfusion, including imaging when performed
<b>78598</b>	Quantitative differential pulmonary perfusion and ventilation (eg, aerosol or gas), including imaging when performed
<b>78600</b>	Brain Imaging Limited Static
<b>78601</b>	Brain Limited Imaging And Flow
<b>78605</b>	Brain Imaging Complete
<b>78606</b>	Brain Imaging Complete With Flow
<b>78608</b>	Brain imaging, positron emission tomography (PET); metabolic evaluation
<b>78609</b>	Brain imaging, positron emission tomography (PET); perfusion evaluation
<b>78610</b>	Brain Flow Imaging Only
<b>78630</b>	Cisternogram (Cerebrospinal Fluid Flow)
<b>78635</b>	Cerebrospinal Ventriculography
<b>78645</b>	CSF Shunt Evaluation
<b>78650</b>	C S F Leakage Detection And Localization
<b>78660</b>	Radiopharmaceutical Dacryocystography
<b>78700</b>	Kidney Imaging Morphology
<b>78701</b>	Kidney Imaging With Vascular Flow
<b>78707</b>	Kidney Imaging With Vascular Flow & Function Single Study Without Pharmacological Intervention
<b>78708</b>	Kidney Imaging Single Study With Pharmacological Intervention
<b>78709</b>	Kidney Imaging - Multiple Studies Without & With Pharmacological Intervention
<b>78725</b>	Kidney Function Study - Non-Imaging Radioisotopic
<b>78730</b>	Urinary Bladder Residual Study
<b>78740</b>	Ureteral Reflux Study
<b>78761</b>	Testicular Imaging With Vascular Flow
<b>78800</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); planar, single limited area (includes vascular flow and blood pool imaging, when performed); planar, single (includes vascular flow and blood pool imaging, when performed); planar, single
<b>78802</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); planar, 2 or more multiple areas (eg, abdomen and pelvis, head and chest), 1 or more days imaging or single area imaging over 2 or more days
<b>78803</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); planar, whole body, single day imaging
<b>78804</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); tomographic (SPECT) , single area (eg, head, neck, chest, pelvis), single day imaging
<b>78811</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); planar, whole body, requiring 2 or more days imaging
<b>78812</b>	Positron emission tomography (PET) imaging; skull base to mid-thigh
<b>78813</b>	Positron emission tomography (PET) imaging; whole body
<b>78814</b>	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; limited area (eg, chest, head/neck)
<b>78815</b>	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; skull base to mid-thigh
<b>78816</b>	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; whole body

<b>78830</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); tomographic (SPECT) with concurrently acquired computed tomography (CT) transmission scan for anatomical review, localization and determination/detection of pathology, single area (eg, head, neck, chest, pelvis), single day imaging
<b>78831</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); tomographic (SPECT), minimum 2 areas (eg, pelvis and knees, abdomen and pelvis), single day imaging, or single area imaging over 2 or more days
<b>78832</b>	Radiopharmaceutical localization of tumor, inflammatory process or distribution of radiopharmaceutical agent(s) (includes vascular flow and blood pool imaging, when performed); tomographic (SPECT) with concurrently acquired computed tomography (CT) transmission scan for anatomical review, localization and determination/detection of pathology, minimum 2 areas (eg, pelvis and knees, abdomen and pelvis), single day imaging, or single area imaging over 2 or more days
<b>93303</b>	Transthoracic echocardiography for congenital cardiac anomalies; complete
<b>93304</b>	Transthoracic echocardiography for congenital cardiac anomalies; follow-up or limited study
<b>93306</b>	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
<b>93307</b>	Echocardiography, transthoracic, real-time with image documentation (2d) with or without m-mode recording; complete
<b>93308</b>	Echocardiography, transthoracic, real-time with image documentation (2d) with or without m-mode recording; follow-up or limited study
<b>93312</b>	TEE 2D;Incl Probe Placement, Imaging/Interp/Report
<b>93313</b>	Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); placement of transesophageal probe only
<b>93314</b>	Echocardiography, transesophageal, real-time with image documentation (2D) (with or without M-mode recording); image acquisition, interpretation and report only
<b>93315</b>	Transesophageal echocardiography for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report
<b>93316</b>	Transesophageal echocardiography for congenital cardiac anomalies; placement of transesophageal probe only
<b>93317</b>	Transesophageal echocardiography for congenital cardiac anomalies; image acquisition, interpretation and report only
<b>93320</b>	Doppler echocardiography, pulsed wave and/or continuous wave with spectral display; complete
<b>93321</b>	Doppler echocardiography, pulsed wave and/or continuous wave with spectral display; follow-up or limited study
<b>93325</b>	Doppler echocardiography color flow velocity mapping
<b>93350</b>	Echocardiography, transthoracic, real-time with image documentation (2d), with or without m-mode recording, during rest and cardiovascular stress test, with interpretation and report
<b>93351</b>	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
<b>93352</b>	Use of echocardiographic contrast agent during stress echocardiography (list separately in addition to code for primary procedure)
<b>93356</b>	Myocardial strain imaging using speckle tracking-derived assessment of myocardial mechanics (List separately in addition to codes for echocardiography imaging)
<b>93452</b>	Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed
<b>93453</b>	Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed
<b>93454</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation
<b>93455</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial venous grafts) including intraprocedural injection(s) for bypass graft angiography
<b>93456</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization
<b>93457</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization

<b>93458</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed
<b>93459</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography
<b>93460</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed
<b>93461</b>	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography
<b>93462</b>	Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (list separately in addition to code for primary procedure)
<b>93530</b>	Right Heart Catheterization (CHD)
<b>93531</b>	Right/Left Heart Catheterization (CHD)
<b>93532</b>	Right/Left Heart Catheterization (CHD-TS)
<b>93533</b>	Right/Left Heart Catheterization (CAD-ASD)
<b>0042T</b>	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
<b>0331T</b>	Myocardial sympathetic innervation imaging, planar qualitative and quantitative assessment;
<b>0332T</b>	Myocardial sympathetic innervation imaging, planar qualitative and quantitative assessment; with tomographic SPECT
<b>0439T</b>	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)
<b>0501T</b>	Noninvasive estimated coronary fractional flow reserve (ffr) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; data preparation and transmission, analysis of fluid dynamics and simulated maximal coronary hyperemia, generation of estimated ffr model, with anatomical data review in comparison with estimated ffr model to reconcile discordant data, interpretation and report
<b>0502T</b>	Noninvasive estimated coronary fractional flow reserve (ffr) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; data preparation and transmission
<b>0503T</b>	Noninvasive estimated coronary fractional flow reserve (ffr) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; analysis of fluid dynamics and simulated maximal coronary hyperemia, and generation of estimated ffr model
<b>0504T</b>	Noninvasive estimated coronary fractional flow reserve (ffr) derived from coronary computed tomography angiography data using computation fluid dynamics physiologic simulation software analysis of functional data to assess the severity of coronary artery disease; anatomical data review in comparison with estimated ffr model to reconcile discordant data, interpretation and report
<b>0515T</b>	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])
<b>0516T</b>	Insertion of wireless cardiac stimulator for left ventricular pacing, including device interrogation and programming, and imaging supervision and interpretation, when performed; electrode only
<b>0517T</b>	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
<b>0519T</b>	Removal and replacement of wireless cardiac stimulator for left ventricular pacing; pulse generator component(s) (battery and/or transmitter)
<b>0520T</b>	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
<b>0572T</b>	Insertion of substernal implantable defibrillator electrode
<b>C8921</b>	Transthoracic echocardiography w/contrast for congenital cardiac anomalies; complete
<b>C8922</b>	Transthoracic echocardiography w/contrast for congenital cardiac anomalies; f/u or limited study
<b>C8923</b>	Transthoracic echocardiography w/contrast, real-time w/image documentation (2d), w/wo m-mode recording; complete

<b>C8924</b>	Transthoracic echocardiography w/contrast, real-time w/image documentation (2d), w/wo m-mode recording; f/u or limited study
<b>C8925</b>	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
<b>C8926</b>	Transesophageal echocardiography (TEE) with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report
<b>C8928</b>	Transthoracic echocardiography w/contrast, real-time w/image documentation (2d), w/wo m-mode recording, during rest and cardiovascular stress test, w/interpretation and report
<b>C8929</b>	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete, with spectral doppler echocardiography, and with color flow doppler echocardiography
<b>C8930</b>	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; including performance of continuous electrocardiographic monitoring, with physician supervision
<b>G0219</b>	Pet imaging whole body; melanoma for non-covered indications
<b>G0235</b>	PET Imaging, Any Site, Not Otherwise Specified
<b>G0252</b>	Pet imaging, full and partial-ring pet scanners only, for initial diagnosis of breast cancer and/or surgical planning for breast cancer (e.g., initial staging of axillary lymph nodes)
<b>G0297</b>	Low dose ct scan (ldct) for lung cancer screening
<b>S8037</b>	Magnetic resonance cholangiopancreatography (mrCP)
<b>S8042</b>	Magnetic resonance imaging (mri), low-field
<b>S8092</b>	Electron beam computed tomography (also known as ultrafast ct, cine ct)

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