Cardiac-Related Procedures

Policy Number: MM.02.029  
Original Effective Date: 12/01/2015  
Line(s) of Business: HMO; PPO; QUEST Integration; Akamai Advantage  
Current Effective Date: 12/30/2016  
Section: Medicine  
Place(s) of Service: Outpatient

I. Description

The following cardiac-related procedures require precertification through National Imaging Associates, Inc. (NIA):

A. Cardiac Resynchronization Therapy (CRT)  
B. Implantable Cardiac Devices (ICD)  
C. Pacemaker Insertion  
D. Heart Catheterization  
E. Stress Echocardiography

II. Administrative Guidelines

A. The ordering physician can obtain precertification or consult with NIA by accessing their website at http://www.radmd.com/ or by calling 1 (866) 306-9729, from 6 a.m. to 6 p.m., weekdays, Hawaii Time. Refer to the HMSA E-Library for instructions on navigating the RadMD website (RadMD Get Started) and requesting precertification/checking the status of a request (RadMD QuickStart).

B. For access to the latest clinical guidelines used for precertification, go to www.radmd.com and click on the link titled View Clinical Guidelines.

C. Services performed in connection with an emergency department visit or observation room confinement (POS 23) and services rendered during an inpatient stay (POS 21) do not require precertification.

D. Services for Akamai Advantage members must meet Medicare guidelines.

E. Precertification is not required for services ordered for FEP members.

F. Codes that require precertification:
### Cardiac Resynchronization Therapy

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33221</td>
<td>Insertion of pacemaker pulse generator only; with existing multiple leads</td>
</tr>
<tr>
<td>33224</td>
<td>Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, with attachment to previously placed pacemaker or pacing cardioverter-defibrillator pulse generator (includes pocket revision, removal, insertion of existing generator)</td>
</tr>
<tr>
<td>33225</td>
<td>Insertion of pacing electrode, cardiac venous system, for left ventricular pacing, at time of insertion of pacing cardioverter-defibrillator or pacemaker pulse generator (for upgrade to dual chamber system and pocket revision) (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>33231</td>
<td>Insertion of pacing cardioverter-defibrillator pulse generator only; with existing multiple leads</td>
</tr>
</tbody>
</table>

### Implantable Cardiac Devices (ICD)

<table>
<thead>
<tr>
<th>CPT Code</th>
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<tbody>
<tr>
<td>33230</td>
<td>Insertion of pacing cardioverter-defibrillator pulse generator only; with existing dual leads</td>
</tr>
<tr>
<td>33240</td>
<td>Insertion of pacing cardioverter-defibrillator pulse generator only; with existing single lead</td>
</tr>
<tr>
<td>33249</td>
<td>Insertion or replacement of permanent pacing cardioverter-defibrillator system with transvenous lead(s) single or dual chamber</td>
</tr>
</tbody>
</table>

### Pacemaker Insertion

<table>
<thead>
<tr>
<th>CPT Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>33206</td>
<td>Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial</td>
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<tr>
<td>33207</td>
<td>Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); ventricular</td>
</tr>
<tr>
<td>33208</td>
<td>Insertion of new or replacement of permanent pacemaker with transvenous electrode(s); atrial and ventricular</td>
</tr>
<tr>
<td>33212</td>
<td>Insertion of pacemaker pulse generator only; with existing single lead</td>
</tr>
<tr>
<td>33213</td>
<td>Insertion of pacemaker pulse generator only; with existing dual leads</td>
</tr>
</tbody>
</table>

### Heart Catheterization

<table>
<thead>
<tr>
<th>CPT Code</th>
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<tbody>
<tr>
<td>93452</td>
<td>Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed</td>
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<tr>
<td>93453</td>
<td>Combined right and left heart catheterization including intraprocedural</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>93454</td>
<td>Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation</td>
</tr>
<tr>
<td>93455</td>
<td>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</td>
</tr>
<tr>
<td>93456</td>
<td>Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization</td>
</tr>
<tr>
<td>93457</td>
<td>Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization including intraprocedural injection(s) for left ventriculography, when performed</td>
</tr>
<tr>
<td>93458</td>
<td>Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right heart catheterization including intraprocedural injection(s) for left ventriculography, when performed</td>
</tr>
<tr>
<td>93459</td>
<td>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</td>
</tr>
<tr>
<td>93460</td>
<td>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</td>
</tr>
<tr>
<td>93461</td>
<td>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</td>
</tr>
<tr>
<td>93462</td>
<td>Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (List separately in addition to code for primary procedure)</td>
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<tr>
<td>CPT Code</td>
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<tr>
<td>93463</td>
<td>Pharmacologic agent administration (e.g., inhaled nitric oxide, intravenous infusion of nitroprusside, dobutamine, milrinone, or other agent) including assessing hemodynamic measurements before, during, after and repeat pharmacologic agent administration, when performed (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>93464</td>
<td>Physiologic exercise study (e.g., bicycle or arm ergometry) including assessing hemodynamic measurements before and after (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>93565</td>
<td>Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective left ventricular or left atrial angiography (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>93566</td>
<td>Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective right ventricular or right atrial angiography (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>93567</td>
<td>Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for supravalvular aortography (List separately in addition to code for primary procedure)</td>
</tr>
<tr>
<td>93568</td>
<td>Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for pulmonary angiography (List separately in addition to code for primary procedure)</td>
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**Stress Echocardiography**

<table>
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<tbody>
<tr>
<td>93320</td>
<td>Doppler echocardiography, pulsed wave and/or continuous wave with spectral display (List separately in addition to codes for echocardiographic imaging); complete</td>
</tr>
<tr>
<td>93321</td>
<td>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 (List separately in addition to codes for echocardiographic imaging)</td>
</tr>
<tr>
<td>93325</td>
<td>Doppler echocardiography color flow velocity mapping (List separately in addition to codes for echocardiography)</td>
</tr>
<tr>
<td>93350</td>
<td>Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report</td>
</tr>
<tr>
<td>93351</td>
<td>Echocardiography, transthoracic, real-time with image documentation (2D), includes M-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report</td>
</tr>
</tbody>
</table>
stress, with interpretation and report; including performance of continuous electrocardiographic monitoring, with supervision by a physician or other qualified health care professional

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<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>93352</td>
<td>Use of echocardiographic contrast agent during stress echocardiography (List separately in addition to code for primary procedure)</td>
</tr>
</tbody>
</table>