All catheterization codes include:
• Introduction, positioning, and repositioning of catheter
• Recording of intracardiac and/or intravascular pressures
• Roadmapping angiography to guide catheter placement
• Catheter removal and access closure
• Imaging supervision, interpretation, report, and recommendations

All right heart caths include:
• Catheter placement in one or more right sided cardiac chambers or structures
• Obtaining blood samples for blood gas measurements
• Cardiac output measurements

Right heart caths do not include:
• Right ventricular or right atrial angiography
• Pulmonary angiography

All left heart caths include:
• Catheter placement in left sided cardiac chambers
• Left ventricular/atrial angiography, imaging supervision, and interpretation

Left heart caths do not include:
• Transapical puncture of the left ventricle
• Transseptal puncture of an intact septum
• Supravalvular aortography

### CPT® PRIMARY CODES

<table>
<thead>
<tr>
<th>CPT®</th>
<th>Description</th>
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<tbody>
<tr>
<td>93451</td>
<td>Right heart catheterization including measurement(s) of oxygen saturation and cardiac output, when performed</td>
</tr>
<tr>
<td>93452</td>
<td>Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed</td>
</tr>
<tr>
<td>93453</td>
<td>Combined right and left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed</td>
</tr>
<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, without left or right heart catheterization</td>
</tr>
</tbody>
</table>
  • Use when coronary or bypass angiography without left or right heart catheterization is performed |
## Coding Catheterizations

### General Coding Guidelines for Catheterization

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</table>
| 93455 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography  
  • Use when coronary or bypass angiography without left or right heart catheterization is performed |
| 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 |
| 93457 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization |
| 93458 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed |
| 93459 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography |
| 93460 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed |
| 93461 | Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography |
## Coding Catheterizations
### General Coding Guidelines for Catheterization

<table>
<thead>
<tr>
<th>CPT®</th>
<th>ADD-ON CODES</th>
</tr>
</thead>
</table>
| 93462 | Left heart catheterization by transseptal puncture through intact septum or by transapical puncture (List separately in addition to code for primary procedure)  
- Use with 93452, 93453, 93458, 93459, 93460, 93461 |
| 93463 | Pharmacologic agent administration (eg, inhaled nitric oxide, intravenous infusion of nitroprusside, dobutamine, milrinone, or other agent) including assessing hemodynamic measurements before, during, after and repeat pharmacologic agent administration, when performed (List separately in addition to code for primary procedure)  
- Use with 93451, 93452, 93453, 93456, 93457, 93458, 93459, 93460, 93461  
- Bill only when performed with pre-, intra- and post-intervention hemodynamic and function measures as a diagnostic test or to evaluate potential therapeutic interventions |
| 93464 | Physiologic exercise study (eg, bicycle or arm ergometry) including assessing hemodynamic measurements before and after (List separately in addition to code for primary procedure)  
- Use with 93451, 93452, 93453, 93456, 93457, 93458, 93459, 93460, 93461  
- Bill only when performed with pre-, intra- and post-intervention hemodynamic and function measures as a diagnostic test or to evaluate potential therapeutic interventions |
| 93566 | for selective right ventricular or right atrial angiography (List separately in addition to code for primary procedure)  
- Use with 93451, 93453, 93456, 93457, 93460, 93461 |
| 93567 | for supravalvular aortography (List separately in addition to code for primary procedure)  
- Use with 93452, 93453, 93454, 93455, 93456, 93457, 93458, 93459, 93460, 93461 |
| 93568 | for pulmonary angiography (List separately in addition to code for primary procedure)  
- Use with 93451, 93453, 93456, 93457, 93460, 93461 |
| 93571 | Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; initial vessel  
- Use appropriate coronary artery modifier |
Coding Catheterizations
General Coding Guidelines for Catheterization

93572  Intravascular Doppler velocity and/or pressure derived coronary flow reserve measurement (coronary vessel or graft) during coronary angiography including pharmacologically induced stress; each additional vessel (List separately in addition to code for primary procedure)
  • Use with 93454, 93455, 93456, 93457, 93458, 93459, 93460, 93461
  • Use appropriate coronary artery modifier

References


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