



## CORRECTIONS DOCUMENT—CPT® Reference Guide for Cardiovascular Coding


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### Page 82 – Example 1

**Example 1:** The right femoral artery is entered and a catheter is advanced to the left ventricle. An injection of contrast is made in the left ventricle. The ventricular catheter is withdrawn and exchanged for a coronary catheter and selective angiograms are made of the right coronary artery and the left coronary arteries. The coronary catheter is withdrawn and exchanged for a catheter that is positioned in the left renal artery for injection of contrast; this catheter is then repositioned in the right renal artery and a contrast injection is made for the right renal angiogram. The catheter is removed and hemostasis is achieved.

**Coding Solution:** Use the following codes to report the procedures 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*

 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*

36245 50 59 *Selective catheter placement, arterial system; each first order abdominal, pelvic, or lower extremity artery branch, within a vascular family*

75724 *Angiography, renal, bilateral, selective (including flush aortogram), radiological supervision and interpretation*

**Correct the listed code to 93458 as there is no mention of bypass grafts in the example.**


**Reflect use of modifiers 50 and 59 as bilateral renal artery selective catheterization was performed.**

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**Example 2:** The right brachial artery is entered and a coronary catheter is advanced to the aortic root. Selective angiograms are made of the right coronary artery and the left coronary arteries. The coronary catheter is withdrawn and exchanged for a catheter that is then positioned in the infrarenal aorta for injection of contrast for aortography and bilateral iliofemoral angiograms with runoff films. The catheter is removed and hemostasis is achieved.

**Coding Solution:** Use the following codes to report the procedures performed.

~~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*

 **93454** Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;

**75630** *Aortography, abdominal plus bilateral lower extremity, catheter, by serialography, radiological supervision and interpretation*


**Correct the listed code to 93454 as there is no mention of bypass grafts in the example. See “Payment Policy Alert” on page 83 for use of G0275 and G0278 for Medicare reporting.**

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**Example 3:** Left heart catheterization from femoral artery, coronary angiography, descending aorta arteriography to visualize renal arteries.

**Coding Solution:** Use the following codes to report the procedures 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*

 **93454** Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation;



75625 Aortography, abdominal, radiological supervision and interpretation

Correct the listed code to 93454 as there is no mention of bypass grafts in the example.

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**Page 83 Example 4**

**Example 4:** The right femoral artery is entered and a catheter is advanced to the left ventricle. An injection of contrast is made in the left ventricle. The ventricular catheter is withdrawn and exchanged for a coronary catheter and selective angiograms are made of the right coronary artery and the left coronary arteries. The coronary catheter is withdrawn and exchanged for a catheter that is positioned in the left iliac artery for injection of contrast. This catheter is then exchanged for a balloon catheter for angioplasty of the iliac artery. After angiographic evaluation of the angioplasty result, a stent is placed in the dilated segment of the iliac artery. The catheter is removed and hemostasis is achieved.

**Coding Solution:** Use the following codes to report the procedures 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*

**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

**37221** *Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within same vessel, when performed*


**Correct the listed code to 93458 as there is no mention of bypass grafts in the example.**

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**Page 171 – Example 1**

**Example 1:** The right femoral artery is entered and a catheter is advanced to the left ventricle. An injection of contrast is made in the left ventricle. The ventricular catheter is withdrawn and exchanged for a coronary catheter and selective angiograms are made of the right coronary artery and the left coronary arteries. The coronary catheter is withdrawn and exchanged for a catheter that is positioned in the left renal artery for injection of contrast; this catheter is then repositioned in the right renal artery and a contrast injection is made for the right renal angiogram. The catheter is removed and hemostasis is achieved.

**Coding Solution:** Use the following codes to report the procedures performed.

-  **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 entriculography, when performed
- 36245 50 59**  
**36250** Selective catheter placement, arterial system; each first-order abdominal pelvic or lower extremity artery branch within a vascular family
- 75724** Angiography, renal, bilateral, selective (including flush aortogram), radiological supervision and interpretation


**Correct to reflect use of modifiers 50 and 59 as bilateral renal artery selective catheterization was performed.**

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**Page 172 – Example 3**

**Example 3:** A 45-year-old male is seen in the emergency department with severe substernal chest pain. The ECG confirms acute inferior MI. Emergency cardiac catheterization is performed to define left heart hemodynamics; left ventriculography and coronary angiography are performed.

**Coding Solution:** Use the following codes to report the procedures performed.

-  Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left



**93458** heart catheterization including intraprocedural injection(s) for left ventriculography, when performed

The results of the study reveal total occlusion of the right coronary artery and severe occlusion of the left main coronary artery. The patient is sent for emergency aortocoronary bypass. Prior to surgery, a Swan-Ganz catheter is inserted via the left subclavian vein and an intra-aortic balloon catheter is inserted into the descending aorta.

**93503** Swan-Ganz catheter for monitoring purposes

**33967** Insertion of intra-aortic balloon catheter

The patient has successful surgery — a quadruple bypass, performed using the left internal mammary artery and three saphenous vein grafts — and leaves the hospital. Two years later, the patient presents with chest pain, pulmonary edema and acute anterior MI. After initial stabilization, cardiac catheterization is performed. In the catheterization laboratory, right and left hemodynamics are recorded. Angiograms include left ventriculography, aortography, coronary angiography and opacification of all bypass conduits.

**93461** The additional services are reported as:

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



**93567**

Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for supraaortic aortography (List separately in addition to code for primary procedure)

**Correct to reflect additional reporting of code 93567 for supraaortic aortography**

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#### Page 173 – Example 4

**Example 4:** Left heart catheterization from femoral artery; coronary angiography; descending aorta arteriography to visualize renal arteries.



**Coding Solution:** Use the following codes to report the procedures performed.

~~93452~~ Left heart catheterization including intraprocedural injection(s) for left ventriculography, imaging supervision and interpretation, when performed

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

75625 Aortography, abdominal, radiological supervision and interpretation

**Correct to reflect that left heart catheterization and coronary angiography was performed (93458).**

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### Page 173 – Example 5

**Example 5:** The right femoral artery is entered and a catheter is advanced to the left ventricle. An injection of contrast is made in the left ventricle. The ventricular catheter is withdrawn and exchanged for a coronary catheter and selective angiograms are made of the right coronary artery and the left coronary arteries. The coronary catheter is withdrawn and exchanged for a catheter that is positioned in the left iliac artery for injection of contrast. This catheter is then exchanged for a balloon catheter for angioplasty of the iliac artery. After angiographic evaluation of the angioplasty result, a stent is placed in the dilated segment of the iliac artery. The catheter is removed and hemostasis is achieved.

**Coding Solution:** Use the following codes to report the procedures performed.

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

~~36245~~ Selective catheter placement, arterial system; each first-order abdominal-pelvic or lower extremity artery branch




~~within a vascular family~~

~~35473 Transluminal balloon angioplasty, percutaneous; iliac~~

~~37205 Transcatheter placement of an intravascular stent(s), (non-coronary vessel), percutaneous, initial vessel~~

~~75960 Transcatheter introduction of intravascular stent(s), (non-coronary vessel), percutaneous and/or open, radiological supervision and interpretation, each vessel~~

~~75962 Transluminal balloon angioplasty, peripheral artery, radiological supervision and interpretation~~

 **37221** Revascularization, endovascular, open or percutaneous, iliac artery, unilateral, initial vessel; with transluminal stent placement(s), includes angioplasty within same vessel, when performed

**Correct code listing to reflect use of CPT® 2011 code 37221 for imaging and placement of iliac artery stent.**

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#### **Page 181, Coding Tip**

Coding Tip: Currently there is no code to delineate the placement of a single coronary sinus catheter without comprehensive study. Codes for intra-atrial recording and pacing (**93602, 93610**) are the most appropriate. Left atrial recording achieved from the transseptal catheterization should be separately coded (eg, with code **93527-93462**)

**Correct code to reflect use of CPT® 2011 code 93462.**

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#### **Page 187, Intracardiac Ablation**

.....Although it may be possible to maneuver a catheter into the left atrium through a patent foramen ovale, it is more often necessary to perform transseptal catheterization of the left atrium. The additional work involved in this left atrial catheterization can be coded with code **93527-93462**.

**Correct code to reflect use of CPT® 2011 code 93462.**