



CY2024 HOSPITAL OUTPATIENT CORONARY PHYSIOLOGY REIMBURSEMENT GUIDE

# Hospital Outpatient Vascular Ambulatory Payment Classifications (C-APCs) and Complexity Adjustments

Centers for Medicare & Medicaid Services (CMS) adopted a C-APC payment policy effective CY2015. The C-APC payment policy makes a single payment for all related or adjunctive hospital items and services provided to a patient receiving certain primary procedures that take place in the hospital outpatient.<sup>1</sup> Hospital outpatient claims that contain at least one J1 procedure code are assigned to C-APCs.<sup>2</sup> C-APC claims that contain two or more J1 procedures or that contain certain add-on procedure codes may be eligible for complexity adjustments that promotes the claim to the next higher cost APC within the primary procedure’s clinical family.

Presented in the table below are CMS CY2024 National Reimbursement Rates for Endovascular Procedure C-APCs. These C-APCs apply to both coronary and peripheral vascular procedures.

CY2024 C-APC	Description	CY2024 CMS National Reimbursement Rate
5191	Level 1 Endovascular Procedures	\$3,108
5192	Level 2 Endovascular Procedures	\$5,452
5193	Level 3 Endovascular Procedures	\$10,493
5194	Level 4 Endovascular Procedures	\$16,725

## Complexity Adjustments for Coronary Physiology Assessments

When certain Diagnostic Cardiac Catheterization procedures are performed in conjunction with fractional flow reserve (FFR) or coronary flow reserve (CFR), CMS will allow for a complexity adjustment from APC 5191 (Level 1 Endovascular Procedures) to APC 5192 (Level 2 Endovascular Procedures).

Presented in the table below are a list of applicable CMS CY2024 Complexity Adjustments.<sup>3</sup>

Primary CPT <sup>+</sup> Code	Short Description	Primary CPT <sup>+</sup> Code C-APC	Secondary CPT <sup>+</sup> Code	Short Description	Complexity Adjusted C-APC <sup>a</sup>	Final National Reimbursement Rate	Qualifying Complexity Adjustment <sup>a</sup>
93454	Coronary artery angio s&i	5191	+93571	Coronary flow reserve measure	5191 <sup>b</sup>	\$3,108	NO <sup>b</sup>
93455	Coronary art/grft angio s&i	5191	+93571	Coronary flow reserve measure	5191	\$3,108	NO
93456	R hrt coronary artery angio	5191	+93571	Coronary flow reserve measure	5192	\$5,452	YES
93457	R hrt art/grft angio	5191	+93571	Coronary flow reserve measure	5191	\$3,108	NO
93458	L hrt artery/ventricle angio	5191	+93571	Coronary flow reserve measure	5192	\$5,452	YES
93459	L hrt art/grft angio	5191	+93571	Coronary flow reserve measure	5192	\$5,452	YES
93460	R&l hrt art/ventricle angio	5191	+93571	Coronary flow reserve measure	5192	\$5,452	YES
93461	R&l hrt art/ventricle angio	5191	+93571	Coronary flow reserve measure	5192	\$5,452	YES

<sup>a</sup> All complexity adjustment combination codes are found in Addendum J of the OPPS Final Rule

<sup>b</sup> Effective 1/1/2024, the combination of coronary physiology (add-on CPT code +93571) and coronary angiography without left heart catheterization (CPT code 93454), coronary angiography in graft (CPT code 93455) and coronary angiography in graft with right heart catheterization (CPT code 93457) no longer qualify for a complexity adjustment from C-APC 5191 to C-APC 5192 in the hospital outpatient setting.<sup>3</sup>

Coronary Angiography and Physiology Assessment Primary CPT<sup>+</sup> Codes with Description

CPT <sup>+</sup> Code	CPT <sup>+</sup> Code Description	C-APC	Medicare Reimbursement
<b>CORONARY ANGIOGRAPHY</b>			
93454	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
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	5191	\$3,108
<b>CORONARY PHYSIOLOGY ASSESSMENT</b>			
+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 (List separately in addition to code for primary procedure)	N/A <sup>a</sup>	Packaged <sup>a</sup>
+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)	N/A <sup>a</sup>	Packaged <sup>a</sup>

<sup>a</sup> OPPS status indicator = N (Items and Services Packaged into APC rate)

+ denotes an add-on code

## Coronary Microvascular Dysfunction ICD-10 Diagnosis Codes Effective October 1, 2023

Coronary microvascular dysfunction is now formally recognized as a diagnosis through the creation of four ICD-10-CM codes. Visit the [CDC's website](#) for a comprehensive list of ICD-10-CM codes.

ICD-10-CM CODES	Description
I20.81	Angina pectoris with coronary microvascular dysfunction
I21.B	Myocardial infarction with coronary microvascular dysfunction
I24.81	Acute coronary microvascular dysfunction
I25.85	Chronic coronary microvascular dysfunction

## References

1. CMS. 2014. CMS Finalizes Hospital Outpatient and Ambulatory Surgical Centers Policy and Payment Changes for 2015. <https://www.cms.gov/newsroom/fact-sheets/cms-finalizes-hospital-outpatient-and-ambulatory-surgical-centers-policy-and-payment-changes-2015>. Accessed January 24, 2023
2. CMS. 2021. Medicare CY 2021 Outpatient Prospective Payment System (OPPS) Proposed Rule Claims Accounting. <https://www.cms.gov/files/document/2021-nprm-opps-claims-accounting.pdf>. Accessed January 24, 2023
3. CMS. 2024. CY2024 OPPS Final Rule Home Page. U.S. Centers for Medicare and Medicaid Services CMS-1786-FC. <https://www.cms.gov/medicare/payment/prospective-payment-systems/hospital-outpatient/regulations-notice/cms-1786-fc>
4. Comprehensive Listing of ICD-10-CM Files. Available at <https://www.cdc.gov/nchs/icd/Comprehensive-Listing-of-ICD-10-CM-Files.htm>

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