

Coronary Computed Tomography Angiography (CCTA) (75572, 75573, 75574) L35121

Indications Overview:

Diagnostic tests must be ordered by the provider who is treating or furnishing a consultation for the beneficiary and who will use the results in the management of the beneficiary's specific medical problem. Services are deemed medically necessary when all of the following conditions are met:

1. CCTA used as an alternative to invasive angiography and stress testing. For patients with anginal symptoms, patients with unclear stress test results, patients in whom the stress test result contradicts the clinical assessment, to determine the patency of coronary artery bypass grafts, as an alternative when cardiac catheterization is impossible or carries a high risk, to rule out stenosis before non-coronary cardiac surgery such as valve replacement or resection of tumors and clarifying unclear finding after invasive angiography.
2. CCTA used to assess patients suspected of having a congenital coronary anomaly of great vessels, cardiac chambers, and valves. It is often used after an anomaly has been identified following a different test such as prior invasive coronary angiogram. CCTA is used to decide if surgery is indicated and for surgical planning.
3. CCTA used to evaluate acute chest pain in the emergency department (ED). The rationale is to quickly triage patients in order to rule out coronary artery disease as a possible cause of symptoms. Many will present with a normal electrocardiogram and myocardial enzymes.
4. CCTA used to assess coronary or pulmonary venous anatomy. Coronary mapping is primarily for pre-surgical planning such as pacemaker lead placement in the lateral coronary vein to resynchronize cardiac contraction in patients with heart failure or guiding biventricular pacemaker placement. Pulmonary vein anatomy can vary from patient to patient. Pulmonary vein mapping is primarily for catheter ablation which can isolate electrical activity from the pulmonary veins and allow for the elimination of recurrent atrial fibrillation or help eliminate procedural complications.
5. CCTA used to assess etiology with new onset heart failure for evaluation of coronary arteries.

Limitations:

1. **The test is never covered for screening, i.e., in the absence of signs, symptoms or disease.**
2. The test will be considered not medically necessary if the anticipated results are not expected to provide new, additional information to that already previously obtained from other tests (such as stress myocardial perfusion images or cardiac ultrasound). New or additional information should facilitate the management decision, not merely add a new layer of testing.
3. The test will be considered not medically necessary if pretest evaluation indicates that the patient would require invasive cardiac angiography for further diagnosis or for therapeutic intervention.
4. The test may be denied, on post-pay review, as not medically necessary when used for cardiac evaluation if there were pre-test knowledge of sufficiently extensive calcification of the suspect coronary segment that would diminish the interpretive value. (e.g., angina decubitus, unstable angina, Prinzmetal angina, etc.)

5. Coverage is limited to devices that process thin, high-resolution slices (1mm or less). The multi-detector scanners must have at least 64 slices per rotation capability.
6. The administration of beta blockers and the monitoring of the patient during MDCT/CCTA by a physician experienced in the use of cardiovascular drugs is included as part of the test and is not a separately payable service.
7. All studies must be ordered by the physician/qualified non-physician practitioner treating the patient and who will use the results of the test in the management of the patient.
8. The test must be performed under the direct supervision of a physician, similar to the stress myocardial perfusion imaging.
9. This LCD does not address electron beam tomography (EBT) technology or Ultrafast CT for coronary artery examination. There is no extension of coverage of EBT based on this policy.
10. **Quantitative calcium scoring is not a covered service and will be denied as not medically necessary.** Calcium scoring reported in isolation is considered a screening service. When performed in association with CT angiography, there is neither separate nor additional included reimbursement for the calcium scoring.
11. Atrial fibrillation or atrial flutter alone is not an indication; atrial fibrillation or atrial flutter with planned ablation therapy is allowed.

Most Common Diagnoses for CCTA (75572, 75573, 75574) (which meet medical necessity) *	
I20.81	Angina pectoris with coronary microvascular dysfunction
I20.9	Angina pectoris
I25.10	Atherosclerotic heart disease/CAD
I31.39	Pericardial effusion
I42.9	Cardiomyopathy
I48.0	Paroxysmal atrial fibrillation
I48.91	Atrial fibrillation
I49.9	Cardiac arrhythmia
I50.9	Heart failure/ CHF
R06.02	Shortness of breath
R07.2	Precordial pain
R07.89	Anterior chest wall pain
R07.9	Chest pain
R94.30	Abnormal result of cardiovascular function study
R94.39	Abnormal electrophysiology intracardiac study (EPS)

*See the complete list of Medicare covered diagnoses and payment rules:

<https://www.cms.gov/medicare-coverage-database/view/article.aspx?articleId=57552>

To see the complete coverage indications and limitations:

<https://www.cms.gov/medicare-coverage-database/view/lcd.aspx?LCDId=35121>

The above CMS and WPS-GHA guidelines are current as of: 04/01/2025.