Subject: CT Angiography*

Effective Date: January 8, 2002

Department(s): Utilization Management

Policy: Computed tomography (CT) angiography is reimbursable under Plans administered by QualCare, Inc. for conditions enumerated in this Policy.

Objective: To ensure proper and consistent reimbursement and appropriate use of a specific diagnostic procedure.

Procedure:

A. CT angiography is authorized for the following:

1. Head (CPT 70496) and neck (70498) vascular imaging

2. Suspected aortic dissection or thoracic aortic aneurysm (CPT 71250, 71260, 71270)

3. Detection of pulmonary embolism (CPT 71275)

4. Abdominal vascular imaging (CPT 75365; HCPCS G0288)

5. Suspected peripheral arterial disease (CPT 73706)

6. Suspected congenital anomalies of coronary circulation or great vessels (75572, 75573)
7. Detection of coronary artery disease (CAD) in patients symptomatic with a chest pain syndrome, if the pre-angiography probability of CAD is intermediate, the EKG uninterpretable, or the patient is unable to exercise (CPT 75574)

8. Detection of CAD in patients with acute chest pain in whom the pre-angiography probability of CAD is low to intermediate, there are no EKG changes, and serial enzymes are negative (CPT 75574)

9. Detection of CAD in patients with a chest pain syndrome or suspected silent ischemia with prior uninterpretable or equivocal stress test results or when stress testing must be deferred or is contraindicated (CPT 75574)

10. Morphologic evaluation of coronary arteries in patients with new-onset heart failure when ischemia is suspected and cardiac catheterization or nuclear stress test cannot be performed (CPT 75574)

11. Preoperative assessment of persons prior to high risk non-cardiac surgery when, in the opinion of a cardiologist, stress testing or invasive coronary angiography must be deferred or is (CPT 75574)

12. Evaluation of graft patency after coronary artery bypass surgery in symptomatic persons (ischemic equivalent)

13. Evaluation of pulmonary veins prior to ablation procedures for atrial fibrillation (CPT 75572)

14. Evaluation of coronary veins prior to placement of biventricular pacemakers (75572)

References:


Takakuwa KM, Keith SW, Estepa AT, Shofer FS. A meta-analysis of 64-section coronary CT angiography findings for predicting 30-day major adverse cardiac events in patients presenting with symptoms suggestive of acute coronary syndrome. Acad Radiol. 2011;18(12):1522-1528


Chow CK, Sheth T. What is the role of invasive versus non-invasive coronary angiography in the investigation of patients suspected to have coronary heart disease? Intern Med J. 2009; Oct 7 (Epub ahead of print)


Ten Kate GJ, WEustink AC, de Feyter PJ. Coronary artery anomalies detected by MSCT-coronary angiography in the adult. *Neth Heart J* 2008;16(11):369-375 (Nov)


Bayrak F, Guneysu T, Gemici G *et al*. Diagnostic performance of 64-slice computed tomography coronary angiography to detect significant coronary artery stenosis. *Acta Cardiol* 2008;63(1):11-17 (Feb)
Danciu SC, Herrera CJ, Stecy PJ, et al. Usefulness of multislice computed Tomographic coronary angiography to identify patients with abnormal myocardial perfusion stress in whom diagnostic catheterization may be safely avoided. Am J Cardiol 1007;100(11):1605-1608 (Dec)


Mozaffarian, D. Electron-Beam Computed Tomography for Coronary Calcium: A Useful Test to Screen for Coronary Heart Disease? JAMA 2005;294(22):2897-2901 (Dec 14)


Klein J (principal reviewer). ACR Practice guideline for the Performance of Computed Tomography (CT) for the Detection of Pulmonary Embolism in Adults. Effective 10/01/05 At http://www.acr.org/s_bin.asp?CID=545&DID=12204&DOC=FILE.PDF accessed 03/02/07


Marwick TH, Cain P. Screening for coronary artery disease. Med Clin N Amer 1999;83: (6) 1375-1402 (Jun)


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*Consistent with Summary Plan Description (SPD). When there is discordance between this policy and the SPD, the provisions of the SPD prevail.