2006 Appropriateness Criteria for CCT

Table 1. Detection of CAD: Symptomatic **Indication**		**Appropriateness Criteria (Median Score)**
Evaluation of Chest Pain Syndrome (Use of CT Angiogram)		
1.	• Intermediate pre-test probability of CAD • ECG interpretable AND able to exercise	**U (5)**
2.	• Intermediate pre-test probability of CAD • ECG uninterpretable OR unable to exercise	**A (7)**
3.	• High pre-test probability of CAD	**I (2)**
Evaluation of Intra-Cardiac Structures (Use of CT Angiogram)		
4.	• Evaluation of suspected coronary anomalies	**A (9)**
Acute Chest Pain (Use of CT Angiogram)		
5.	• Low pre-test probability of CAD • No ECG changes and serial enzymes negative	**U (5)**
6.	• Intermediate pre-test probability of CAD • No ECG changes and serial enzymes negative	**A (7)**
7.	• High pre-test probability of CAD • No ECG changes and serial enzymes negative	**U (6)**
8.	• High pre-test probability of CAD • ECG—ST-segment elevation and/or positive cardiac enzymes	**I (1)**
9.	• "Triple rule out"—exclude obstructive CAD, aortic dissection, and pulmonary embolism • Intermediate pre-test probability for one of the above • ECG—no ST-segment elevation and initial enzymes negative	**U (4)**

Table 2. Detection of CAD: Asymptomatic (Without Chest Pain Syndrome) **Indication**		**Appropriateness Criteria (Median Score)**
Asymptomatic (Use of CT Angiogram)		
10.	• Low CHD risk (Framingham risk criteria)	**I (1)**
11.	• Moderate CHD risk (Framingham)	**I (2)**
12.	• High CHD risk (Framingham)	**U (4)**

Table 3. Risk Assessment: General Population **Indication**		**Appropriateness Criteria (Median Score)**
Asymptomatic (Calcium Scoring)		
13.	• Low CHD risk (Framingham)	**I (1)**
14.	• Moderate CHD risk (Framingham)	**U (6)**
15.	• High CHD risk (Framingham)	**U (5)**

Table 4. Detection of CAD With Prior Test Results **Indication**		**Appropriateness Criteria (Median Score)**
Evaluation of Chest Pain Syndrome (Use of CT Angiogram)		
16.	• Uninterpretable or equivocal stress test (exercise, perfusion, or stress echo)	**A (8)**
17.	• Evidence of moderate to severe ischemia on stress test (exercise, perfusion, or stress echo)	**I (2)**

Table 5. Risk Assessment With Prior Test Results **Indication**		**Appropriateness Criteria (Median Score)**
Asymptomatic (Calcium Scoring)		
18.	• Prior calcium score within previous 5 years	**I (1)**
Asymptomatic (Use of CT Angiogram)		
19.	• High CHD risk (Framingham) • Within 2 years prior cardiac CT angiogram or invasive angiogram without significant obstructive disease	**I (2)**
20.	• High CHD risk (Framingham) • Prior calcium score greater than or equal to 400	**I (3)**

Table 6. Risk Assessment: Preoperative Evaluation for Non-Cardiac Surgery **Indication**		**Appropriateness Criteria (Median Score)**
Low-Risk Surgery (Use of CT Angiogram)		
21.	• Intermediate perioperative risk	**I (1)**
Intermediate- or High-Risk Surgery (Use of CT Angiogram)		
22.	• Intermediate perioperative risk	**U (4)**

Table 7. Detection of CAD: Post-Revascularization (PCI or CABG) **Indication**		**Appropriateness Criteria (Median Score)**
Evaluation of Chest Pain Syndrome (Use of CT Angiogram)		
23.	• Evaluation of bypass grafts and coronary anatomy	**U (6)**
24.	• History of percutaneous revascularization with stents	**U (5)**
Asymptomatic (Use of CT Angiogram)		
25.	• Evaluation of bypass grafts and coronary anatomy • Less than 5 years after CABG	**I (2)**
26.	• Evaluation of bypass grafts and coronary anatomy • Greater than or equal to 5 years after CABG	**I (3)**
27.	• Evaluation for in-stent restenosis and coronary anatomy after PCI	**I (2)**

Table 8. Structure and Function **Indication**		**Appropriateness Criteria (Median Score)**
Morphology (Use of CT Angiogram)		
28.	• Assessment of complex congenital heart disease including anomalies of coronary circulation, great vessels, and cardiac chambers and valves	**A (7)**
29.	• Evaluation of coronary arteries in patients with new onset heart failure to assess etiology	**A (7)**
Evaluation of Ventricular and Valvular Function (Use of CT Angiogram)		
30.	• Evaluation of LV function following myocardial infarction OR in heart failure patients	**I (3)**
31.	• Evaluation of LV function following myocardial infarction OR in heart failure patients • Patients with technically limited images from echocardiogram	**U (5)**
32.	• Characterization of native and prosthetic cardiac valves • Patients with technically limited images from echocardiogram, MRI, or TEE	**U (5)**
Evaluation of Intra- and Extra-Cardiac Structures (Use of Cardiac CT)		
33.	• Evaluation of cardiac mass (suspected tumor or thrombus) • Patients with technically limited images from echocardiogram, MRI, or TEE	**A (8)**
34.	• Evaluation of pericardial conditions (pericardial mass, constrictive pericarditis, or complications of cardiac surgery) • Patients with technically limited images from echocardiogram, MRI, or TEE	**A (8)**
35.	• Evaluation of pulmonary vein anatomy prior to invasive radiofrequency ablation for atrial fibrillation	**A (8)**
36.	• Noninvasive coronary vein mapping prior to placement of biventricular pacemaker	**A (8)**
37.	• Noninvasive coronary arterial mapping, including internal mammary artery prior to repeat cardiac surgical revascularization	**A (8)**
Evaluation of Aortic and Pulmonary Disease (Use of CT Angiogram[*])		
38.	• Evaluation of suspected aortic dissection or thoracic aortic aneurysm	**A (9)**
39.	• Evaluation of suspected pulmonary embolism	**A (9)**