

Obstructive CAD Diagnostic						
Test	Accuracy	Cost	Risk	Time	Advantages	Limitations
Conventional Angiogram	98%	Highest	High	8 hrs	<input type="checkbox"/> Clinical standard for CAD	<input type="checkbox"/> Invasive, expensive, high risk, and time consuming
CARDx ECD (12-lead CCG)	90~94%	Medium Low	None	10 min	<input checked="" type="checkbox"/> The only accurate, fast, and non-invasive technology for early detection of CAD, ischemia, microvascular dysfunction, & differentiating heart dysfunctions	<input checked="" type="checkbox"/> Only available for 3D localization of the approximate ischemic area(s) of involved coronary arteries
64-Slice CCTA	Sensitivity 91~99% Specificity 64~91%	High	Moderate	60 min	<input type="checkbox"/> A useful way of screening for CAD <input type="checkbox"/> Safer and faster than conventional angiogram	<input type="checkbox"/> High calcium score <input type="checkbox"/> Motion artifact <input type="checkbox"/> Allergic reaction due to IV contrast injection <input type="checkbox"/> Kidney diseases or severe diabetes
Stress Thallium SPECT	Sensitivity 80~90% Specificity 70~75%	High	Moderate	4 hrs	<input type="checkbox"/> Most accurate for ejection fraction <input type="checkbox"/> Best for ischemia detection <input type="checkbox"/> Evaluates wall motion & heart under stress	<input type="checkbox"/> Some risk with exercise <input type="checkbox"/> Requires IV radio-isotope injection <input type="checkbox"/> Expensive
Stress Echo-cardiogram	80% (27% false positive if hypertensive)	Medium	Moderate	30~40 min (technically demanding)	<input type="checkbox"/> Non-invasive <input type="checkbox"/> Good for measuring valvular ejection fraction and left ventricular function <input type="checkbox"/> Best for valvular, congenital, and wall motion	<input type="checkbox"/> Only 80% accurate <input type="checkbox"/> Risk of AMI <input type="checkbox"/> Must be ischemic to show abnormalities
Echo-cardiogram	75%	Medium Low	None	15 min	<input type="checkbox"/> Non-invasive <input type="checkbox"/> No risks	<input type="checkbox"/> Only 75% accurate for CAD, good images cannot be obtained in 5~15% of patients
Stress ECG	50~70%	Low	Moderate	30~40 min	<input type="checkbox"/> Detects perfusion deficit <input type="checkbox"/> Non-invasive	<input type="checkbox"/> Not recommended if abnormal EKG <input type="checkbox"/> Only 42% accurate on women; 33% false positives, 25% false negatives
ECG	40~50%	Lowest	None	10 min	<input type="checkbox"/> Inexpensive <input type="checkbox"/> No risk <input type="checkbox"/> Fast <input type="checkbox"/> Non-invasive	<input type="checkbox"/> Low accuracy <input type="checkbox"/> Low specificity <input type="checkbox"/> Insensitive to ischemia