

## Common Indications & Appropriateness Criteria for Echocardiography

Initial echocardiogram	<ul style="list-style-type: none"> <li>▪ Evaluation of cardiac symptoms eg. chest pain, dyspnea, edema, palpitations, presyncope or syncope</li> <li>▪ Evaluation of murmur, suspected valvular stenosis/regurgitation, myocardial, pericardial or aortic disease</li> <li>▪ Hypertension</li> <li>▪ Post MI/ ACS/ revascularization/ cardiac surgery/ new prosthetic valve</li> <li>▪ Arrhythmia, frequent ectopy, LBBB, high grade AV block, WPW</li> <li>▪ Pre-pacemaker or ICD insertion (if prior echo &gt; 3 months)</li> <li>▪ Neurologic or other embolic event</li> <li>▪ Other indications eg pulmonary hypertension, screening of relatives for inherited cardiac conditions, use of cardiotoxic drugs, Marfans/ connective tissue disease, suspected endocarditis</li> </ul>
Reevaluation at any time	<ul style="list-style-type: none"> <li>▪ Reevaluation of known valvular stenosis/regurgitation, myocardial, pericardial, aortic or congenital heart disease of any severity with change in clinical status or examination</li> <li>▪ Reassessment of known LV dysfunction/ cardiomyopathy to guide therapy</li> </ul>
Reassessment ≥ 6 months	<ul style="list-style-type: none"> <li>▪ Severe valvular stenosis or regurgitation</li> <li>▪ Severe LV dysfunction/ cardiomyopathy</li> </ul>
Reassessment ≥ 1 year	<ul style="list-style-type: none"> <li>▪ Moderate valvular stenosis or regurgitation</li> <li>▪ Prosthetic valve</li> <li>▪ LV dysfunction/ cardiomyopathy</li> <li>▪ Prior surgery of aorta</li> <li>▪ Moderate or greater sized pericardial effusion</li> </ul>
Reassessment ≥ 2 years	<ul style="list-style-type: none"> <li>▪ Mild valvular stenosis</li> <li>▪ MVP with significant leaflet thickening/ redundancy</li> <li>▪ Congenital heart disease</li> </ul>

## Common Indications for Stress Testing, Stress Echocardiogram & Myocardial Perfusion Imaging

Indications for exercise stress testing	<ul style="list-style-type: none"> <li>▪ Evaluation of chest pain or ischemic equivalent syndrome, dyspnea, palpitations, presyncope or syncope</li> <li>▪ Post MI/ ACS/ revascularization/ cardiac surgery</li> <li>▪ Congestive heart failure</li> <li>▪ Arrhythmia</li> <li>▪ Physiologic assessment of patients with moderate/ severe valvular disease, cardiomyopathy, pulmonary hypertension</li> <li>▪ Intermediate/ high global CAD risk</li> <li>▪ Significant cerebrovascular or peripheral vascular disease</li> <li>▪ Periodic reevaluation (≥ 1 year) of stable CAD</li> <li>▪ Periodic reevaluation (≥ 1 year) of patients with cerebrovascular or peripheral vascular disease</li> <li>▪ Periodic reevaluation (≥ 2 year) of patients with intermediate/ high global CAD risk</li> </ul>
Indications for addition of imaging  ▪ myocardial perfusion imaging (Cardiolite) or  ▪ stress echocardiogram	<ul style="list-style-type: none"> <li>▪ Baseline ECG abnormalities eg. <ul style="list-style-type: none"> <li>▪ ST depression &gt; 1 mm</li> <li>▪ LVH</li> <li>▪ Digoxin therapy</li> <li>▪ LBBB, intraventricular conduction delay (recommend Persantine Cardiolite)</li> <li>▪ Paced rhythm</li> <li>▪ WPW</li> </ul> </li> <li>▪ High pretest probability of CAD eg. <ul style="list-style-type: none"> <li>▪ Typical angina</li> <li>▪ LV dysfunction</li> </ul> </li> <li>▪ Known CAD to assess extent and localize ischemia</li> <li>▪ Inability to exercise (recommend pharmacologic stress with imaging - Persantine Cardiolite or dobutamine stress echocardiogram)</li> </ul>