

Management and Testing of **Ischemic Heart Disease**

Symptomatic (Sudden worsening of symptoms could represent ACS and should be referred to the ED)

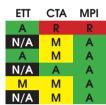


Classification of chest pain

- Characteristics
- Substernal chest pain Brought on by exertion
- Relieved with rest
- 0 or 1 characteristics = non-cardiac chest pain
- 2 characteristics = atypical chest pain
- 3 characteristics = typical chest pain/angina

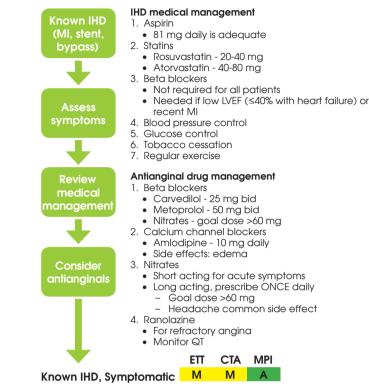
Age (years)	Sex	Typical/Definite Angina Pectoris	Atypical/Probable Angina Pectoris	Nonanginal Chest Pain
≤39	Men	Intermediate	Intermidiate	Low
	Women	Intermediate	Very Low	Very Low
40-49	Men	High	Intermediate	Intermediate
	Women	Intermediate	Low	Very Low
50-59	Men	High	Intermediate	Intermediate
	Women	Intermediate	Intermediate	Low
>60	Men	High	Intermediate	Intermediate
	Women	High	Intermediate	Intermediate

Low likelihood, can exercise Low likelihood, cannot exercise Intermediate likelihood, can exercise Intermediate likelihood, cannot exercise N/A High likelihood, can exercise High likelihood, cannot exercise





Don't perform cardiac imaging for patients who are at low risk.



Asymptomatic



Risk factor modification: recommendations

- Physical activity
- Weight management Tobacco counseling
- - Reduce intake of saturated fat (<7% of total calories); trans fatty acids (<1% of total calories); total cholesterol (<200 mg/dL)
- Limit alcohol consumption
 Blood pressure control (<140/90 mm Hg)
- Patients with diabetes: HbA1C ≤7%

IHD medical management

- 81 mg daily is adequate Statins
- Rosuvastatin 20-40 mg daily Atorvastatin - 40-80 mg daily
- Beta blockers
- Not required for all patients
- Needed if low LVEF (≤ 40% with heart failure) or recent MI
- Blood pressure control
- Glucose control
- Tobacco cessation
- Regular exercise



Don't perform stress cardiac imaging or coronary angiography in patients without cardiac symptoms unless high-risk markers are present.

Don't perform radionuclide imaging as part of routine follow-up in asymptomatic

Preoperative Assessment



factors

Optimize

medical

therapy

Testing rarely

indicated

Example METs

- 3-6 METs
- Brisk walking >4 mph Bicycling < 10 mph
- Dancing
- Climb stairs Yard chores
- > 6 METs Assess for surgical risk
 - Push mower

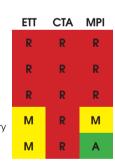
 - Running
 - Aerobics

Heavy loads (>20 kg)

3. Control blood glucose



Unknown METs + RFs Intermediate risk surgery **Unknown METs + RFs** High risk surgery



Surgical risk factors

Prior MI/CAD

3. Diabetes on insulin

CKD (Creat >2 mg/dL)

Heart failure

5. Stroke/TIA

1. Control BP

Medical therapy

Quit smoking



Don't perform cardiac imaging as a pre-operative assessment in patients scheduled to undergo low- or intermediate-risk non-cardiac surgery.

Legend

Medications (ASA, statin) if indicated

- **A** = appropriate **M** = maybe appropriate
- **R** = rarely appropriate **ETT** = exercise treadmill test
- CTA = computed tomography angiography
- MPI = myocardial perfusion imaging

Suggested Reading

Fihn SD, et al. 2012 ACCF/AHA/ACP/AATS/PCNA/SCAI/STS Guideline for the diagnosis and management of patients with stable ischemic heart disease. Circulation. 2012;126:e354-e471. Fleisher LA, et al. 2014 ACC/AHA Guideline on perioperative cardiovascular evaluation and management of

patients undergoing noncardiac surgery. J Am Coll Cardiol. 2014;64:e77–137.

Wolk M.I. et al. ACCF/AHA/ASE/ASNC/HFSA/HRS/SCAI/SCCT/SCMR/STS 2013 multimodality appropriate use criteria for the detection and risk assessment of stable ischemic heart disease. J Am Coll Cardiol. 2014;63:380-406.

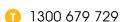




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MPS & Nuclear Medicine Echocardiography

CTCA

Exercise Stress Tests

Holter

Cardiology Consults