Clinical interpretation of High sensitivity Cardiac Troponin
Serial testing for possible cardiac chest pain

If any elevated troponin value - increased above upper reference limit (URL): >10ng/L in females or >20ng/L in males

STEP 1: Identify significant change in serial testing?

Yes
Acute myocardial injury

No
Troponin level stable

STEP 2: Identify evidence for acute myocardial ischemia?

Yes
Myocardial infarction

No

STEP 3: Identify cause of myocardial ischemia?

Evidence of acute coronary atherothrombosis

Type 1 MI
Type 1 MI triggers
• Plaque rupture
• Plaque erosion

Type 2 MI
Type 2 MI examples
• Severe hypertension
• Sustained tachyarrhythmia

Acute myocardial injury
Examples
• Acute heart failure
• Myocarditis

Chronic myocardial injury
Examples
• Structural heart disease
• Chronic kidney disease