High Sensitivity Cardiac Troponin Workflow

Patients enter algorithm when concerns for Acute Coronary Syndrome (ACS) and non-acute EKG

Troponin within reference interval

Zero hour
≤99th percentile:
Female ≤14 ng/L   Male ≤22 ng/L

Elevated level of troponin

Zero hour
>99th percentile but ≤100 ng/L

High risk for acute myocardial infarction

Zero hour
>100 ng/L

Pain onset Greater than 6 hours

Pain onset less than 6 hours

HEART Score

Two hour RETEST

Two hour RETEST

HEART 0-3

Change at 2 hours <8 ng/L

Change at 2 hours ≥8 ng/L

Change at 2 hours <8 ng/L

Change at 2 hours ≥ 8 ng/L

HEART ≥ 4

Discharge: Outpatient workup Consider non-cardiac workup

Shared decision making:

1)Offer admission

2) Discharge with close follow up (within 72 hours)

Rising troponins generally warrants admission

Use clinical judgement for further testing

Work up differential diagnosis

Use clinical judgement for further testing and disposition planning

Consistent with ACS