



Possible ischemic presentation

Immediate 12-lead electrocardiogram (ECG)

ST-segment elevation present

STEMI guidelines

ST-segment elevation absent

Check baseline troponin (0 hr) & HEART Score

ED RULE OUT
HEART Score 0-3 AND Baseline troponin (≤14 ng/L (female) or ≤22 ng/L (male) AND ECG with no ischemic changes

CPU
HEART Score ≤6 OR Troponin (> 14 ng/L (female) or > 22 ng/L (male)) < 100 ng/L

Baseline Troponin ≥ 100 ng/L OR ≥ 10 ng/L increase in baseline troponin in serial testing

Repeat troponin at 2 hr with ECG

Repeat 2 & 6 hr Troponin with ECGs

ALL troponins (≤14 ng/L (female) or ≤22 ng/L (male)) AND < 4ng/L change from baseline AND ECG with no ischemic changes

ALL serial troponins <100 ng/L AND < 10ng/L change from baseline troponin AND ECG's with no ischemic changes

YES

NO

YES

NO

ADMIT with prompt cardiac evaluation

DISCHARGE HOME FROM ED—Cardiac stress test scheduled within 72 hours, if appropriate.

Any troponin ≥ 100 ng/L OR ≥ 10 ng/L change from baseline

No

Consider chronic myocardial injury OR late MI OR nonischemic myocardial injury. Further clinical evaluation and stress testing only if appropriate.

Yes

N.B. Patients with rising patterns that do not exceed the 99th URL and those with increases above the 99th URL but with a delta of 10ng/L require close scrutiny.