

UMMS High-Sensitivity cTnT Quick Reference

Chest Pain Equivalent Protocol

! hs-cTnT ≥ 52 ng/L at any time = ABNORMAL



Emergency Department

1 Baseline

<6 ng/L AND
symptom duration ≥ 3 hours

RULED OUT

≥ 6 ng/L and <52 ng/L
OR
symptom duration <3 hours

INDETERMINATE →
repeat testing

i Only patients with indeterminate results move on to the next redraw.

2 1-hour redraw (change from baseline)

hs-cTnT <12 ng/L AND $\Delta < 3$ ng/L

RULED OUT

hs-cTnT <12 ng/L AND $\Delta \geq 3$ ng/L

INDETERMINATE

hs-cTnT ≥ 12 and <52 ng/L AND $\Delta < 5$ ng/L

INDETERMINATE

hs-cTnT ≥ 12 and <52 ng/L AND $\Delta \geq 5$ ng/L

ABNORMAL

3 3-hour redraw (for remaining indeterminate patients)

$\Delta < 7$ ng/L

RULED OUT

$\Delta > 7$ ng/L

ABNORMAL



Inpatient Units

1 Baseline

<6 ng/L AND
symptom duration ≥ 3 hours

RULED OUT

If not ruled out at baseline,
proceed to 3-hour redraw

2 3-hour redraw (change from baseline)

$\Delta < 7$ ng/L

RULED OUT

$\Delta > 7$ ng/L

ABNORMAL



Abnormal results should be evaluated for clinical evidence of myocardial ischemia (history, ECG, cardiac imaging).
If positive, consult cardiology for management assistance as needed.



Clinical decision scores are not part of this protocol; providers may use their preferred tool and should exercise sound clinical judgment.