Heart Attack Troponin Levels Chart

Pabau

Use this chart to document and track patient troponin levels during cardiac evaluation.

PATIENT INFORMATION

Patient Name: _____ **Date of Birth:** _____

Medical Record #: _____ **Attending Physician:** _____

Admission Date: _____ **Chief Complaint:** _____

Relevant Medical History: _____

TROPONIN REFERENCE RANGES

Biomarker	Unit	Normal Range (Male)	Normal Range (Female)	Elevated / High Range
Troponin I (cTnI)	ng/mL	0 – 0.04	0 – 0.04	**> 0.04 ng/mL**
Troponin T (cTnT)	ng/mL	0 – 0.10	0 – 0.10	**> 0.10 ng/mL**
HS-Troponin I	ng/L	0 – 20	0 – 15	**Male: > 20 ng/L Female: > 15 ng/L**
HS-Troponin T	ng/L	0 – 15	0 – 10	**Male: > 15 ng/L Female: > 10 ng/L**
Myocardial Infarction Threshold	ng/mL	**≥ 0.40 ng/mL (Troponin I) — Strongly suggestive of acute MI. For HS assays, use the 99th percentile URL with rising/falling pattern.**		

Note: Reference ranges vary by laboratory and assay manufacturer. Always verify against your facility's specific ranges. A rising or falling pattern over 3–6 hours is more diagnostically significant than a single value.

KEY CLINICAL CONSIDERATIONS

Serial Testing Protocol

Draw troponin at presentation, then at 3h and 6h intervals. A rise/fall pattern >20% change is significant for acute MI diagnosis.

High-Sensitivity vs Conventional

HS assays detect smaller elevations earlier. Gender-specific cutoffs apply. HS-cTnI and HS-cTnT have different normal ranges for males and females.

Non-ACS Troponin Elevation

Troponin can rise in: heart failure, PE, myocarditis, sepsis, renal failure, cardiac contusion, and post-procedural states. Clinical context is essential.

Timing of Peak Levels

cTnI peaks at 12–24h post-MI and remains elevated 7–10 days. cTnT peaks at 12–48h and may stay elevated up to 14 days.

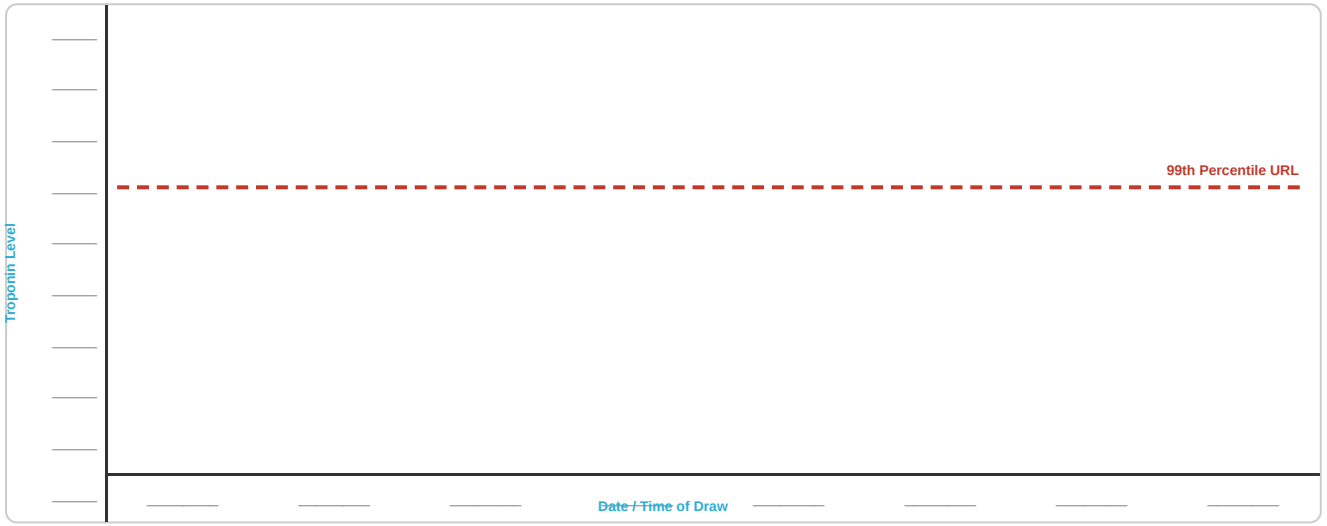
SERIAL TROPONIN RESULTS LOG

Date / Time	Hours Since Symptom Onset	Assay Type	Result	Unit	Normal?	% Change from Previous	Initials

Date / Time	Hours Since Symptom Onset	Assay Type	Result	Unit	Normal?	% Change from Previous	Initials

TROPONIN TREND GRAPH

Plot troponin results over time. Y-axis: troponin level (use intervals matching your assay). X-axis: date/time of each draw. Mark the 99th percentile upper reference limit (URL) as a dashed line.



CLINICAL ASSESSMENT

ECG Findings:

Symptoms at Presentation (chest pain characteristics, onset, duration, radiation):

Risk Factors (hypertension, diabetes, smoking, family history, hyperlipidemia):

Additional Cardiac Biomarkers (CK-MB, BNP/NT-proBNP, D-dimer if applicable):

Clinical Impression / Working Diagnosis:

Plan / Disposition:

PRACTITIONER SIGN-OFF

Attending Physician Signature

Date

Nurse / Technician Signature

Date