

# News

## Clinical Laboratory Test Update

### Troponin I Discontinuation

### New Test – High Sensitivity Troponin I

At approximately **8:00 AM** on **12/14/2020**, the University of Colorado Hospital Clinical Laboratory must disable the current, conventional Troponin I Ultra order due to discontinuation of the test by the assay manufacturer. Concurrently, orders for a new High Sensitivity Troponin I assay will become available in Epic.

HS Troponin I (Single Order)	HS Troponin I (LAB2030)
Order Panel (Inpatient)	HS-Troponin I (0, 1 & 3 HOUR SAMPLES) IP
Specimen	Preferred - One 5mL green top with gel
Storage/Transport	Onsite: Deliver to lab immediately at ambient temperature Offsite: Centrifuge within 60 minutes of collection Transport to laboratory on cold pack.
Stability – after centrifugation	Room Temperature = 4 hours Refrigerated = 48 hours Frozen = 180 days
Reference Interval for result (99 percentile URL)	Female $\leq 14.9$ ng/L Male $\leq 19.8$ ng/L Unspecified in Epic $\leq 17.9$ ng/L
CPT Code	84484

**The new HS Troponin I assay will produce results that look very different (see example below):**

- Numeric values *will be much larger* as compared to values for the old assay, because the new results will be reported in a different unit of measure (ng/L).
- Reference intervals *will vary* based on one's sex.
- Most healthy patients will have measurable troponin I values.

You *cannot* directly compare values obtained from an older, conventional troponin assay (including point-of-care troponin values or values from other hospitals) to the new HS Troponin I values.

Because HS Troponin I elevations *unrelated to acute ischemia* also occur in other cardiac and systemic diseases, the 4th Universal Definition of Myocardial Infarction criteria for a clinical diagnosis of a Type I or Type II MI includes:

1. the elevated HS Troponin I value  
AND
2. a significant rise and/or fall in sequential HS Troponin I values  
AND
3. additional signs/evidence of acute myocardial ischemia

**Providers with personalized favorites lists for test ordering will need to update their favorites lists with the HS Troponin I order to ensure there are no delays with performing this testing.**

**HS Troponin I**
Order: 488694861

Collected: 12/9/2020 12:00 Status: Final result Visible to patient: No (inaccessible in MHC)

*ⓘ Newer results are available. Click to view them now.*

	Ref Range & Units	12/9/20 1200
Hs Troponin I	Male: <= 19.8; Female: <= 15.0 14.9; Unspecified: <= 17.9 ng/L	
Comment: This value was obtained with the ACCESS High Sensitivity Troponin I assay. When tested by this assay, most healthy people have measurable troponin I values within the sex-specific reference intervals. HS-Troponin I values are numerically larger than for older troponin assays that used different units of measurement.		
<b>Hs Troponin Delta</b> Comment: No previous HS Troponin I value. Unable to calculate.		
<b>Hs Troponin % Change</b> Comment: A greater than +/-20% Change from the prior hsTnI value together with a Delta of at least +/-4 ng/L is considered a significant rise/fall. No previous HS Troponin I value. Unable to calculate.		

**When a recent prior HS Troponin I result is available in Epic, a calculated absolute change “Delta” and relative change “% Change” will appear with the HS Troponin I value for convenience in assessing rising/falling values.**

Please call Gregory Bocsi, DO at 720-848-7050 if you have any questions or visit our test catalog at <https://www.testmenu.com/universityhospital> for additional information.

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