

Test Update

High-Sensitivity Troponin I Testing

UVM Medical Center

On 8/26/2026, University of Vermont Health will transition from the current conventional, sensitive cardiac troponin I assay (cTnI) to the newly released high-sensitivity cardiac troponin I assay (hs-cTnI) on our OCD Vitros 7600 platforms. The most important changes to be aware of with this transition are:

- The 99th% of the assay for application of the universal definition of myocardial injury will change from 0.034 ng/mL to 11 ng/L for both males and females.
- Reporting Units will change from ng/mL with 3 decimal places to ng/L in whole numbers
- The lowest reported value will change from 0.034 ng/mL to 2 ng/L
- The highest reported value will change from 65.000 ng/mL to 30,000 ng/L

With this change a new ED ACS algorithm pathway has been developed in conjunction with ED and Cardiology. This pathway utilizes separate, specific troponin orders that will have calculated delta components to assist in interpretation. We have also devised a recommended approach to utilizing hs-cTnI for our inpatient population. Both the ED ACS algorithm and the inpatient recommended workflows will be published in an upcoming EPIC update to all users. This will include a link to an educational session recording that covers the reasons why we are making this change, and how this new assay will be utilized.

Test Build Information

The new orderable, High-Sensitivity Troponin I (LAB17925) will replace Troponin I (LAB747). This orderable will be used by UVMH inpatient providers and outside clients.

New Orderable to Replace LAB747	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code(s)
High-Sensitivity Troponin I	LAB17925	LAB17925	FAH6305	10829-9	84484
Result Component(s)	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes
High-Sensitivity Troponin I	12301021514	12301021514	FAH6306	10839-9	
Specimen Requirements					
Container	Specimen	Temperature	Collect Vol	Submit Vol	Stability
Green Top (Lithium Heparin)	Plasma	Refrigerated	4 mL	1 mL	3 days
Collection Instructions					
Min Vol = 1 mL. Serum samples will not be accepted.					

Orderable to be Discontinued	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code(s)
Troponin I	LAB747	TROPI	FAH5501	10839-9	84484



University of
Vermont Health

UVM Medical Center

Pathology & Laboratory Medicine

Location

111 Colchester Ave.
Burlington, VT 05401

Lab Customer Service

802-847-5121
800-991-2799

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The ACS High-Sensitivity Troponin I (0, 1, 3 hour) tests will be available to order **in Epic in the Emergency Department setting only**.

New Orderable (Epic Only)	Epic Code	Atlas Code (not ord)	Mayo Access ID	Order LOINC	CPT Code(s)
ACS High-Sensitivity Troponin I 0H	LAB17926	LAB17926	N/A	in process	84484
Result Component(s)	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes
ACS High-Sensitivity Troponin I 0H	12301021532	12301021532	N/A	in process	
Specimen Requirements					
Container	Specimen	Temperature	Collect Vol	Submit Vol	Stability
Green Top (Lithium Heparin)	Plasma	Refrigerated	4 mL	1 mL	3 days
Collection Instructions					
Min Vol = 1 mL. Serum samples will not be accepted.					

New Orderable (Epic Only)	Epic Code	Atlas Code (not ord)	Mayo Access ID	Order LOINC	CPT Code(s)
ACS High-Sensitivity Troponin I 1H	LAB17927	LAB17927	N/A	in process	84484
Result Component(s)	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes
ACS High-Sensitivity Troponin I 1H	12301021533	12301021533	N/A	in process	
ACS High-Sensitivity Troponin I <=11 0-1H Delta	12301021534	12301021534	N/A	in process	
ACS High-Sensitivity Troponin I >11 0-1H Delta	12301021535	12301021535	N/A	in process	
Specimen Requirements					
Container	Specimen	Temperature	Collect Vol	Submit Vol	Stability
Green Top (Lithium Heparin)	Plasma	Refrigerated	4 mL	1 mL	3 days
Collection Instructions					
Min Vol = 1 mL. Serum samples will not be accepted.					

New Orderable (Epic Only)	Epic Code	Atlas Code (not ord)	Mayo Access ID	Order LOINC	CPT Code(s)
ACS High-Sensitivity Troponin I 3H	LAB17949	LAB17949	N/A	in process	84484
Result Component(s)	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes
ACS High-Sensitivity Troponin I 3H	12301021604	12301021604	N/A	in process	
ACS High-Sensitivity Troponin I <=11 0-3H Delta	12301021605	12301021605	N/A	in process	
ACS High-Sensitivity Troponin I >11 0-3H Delta	12301021606	12301021606	N/A	in process	
Specimen Requirements					
Container	Specimen	Temperature	Collect Vol	Submit Vol	Stability
Green Top (Lithium Heparin)	Plasma	Refrigerated	4 mL	1 mL	3 days
Collection Instructions					
Min Vol = 1 mL. Serum samples will not be accepted.					

If you have any questions or concerns regarding these changes, please reach out to the Medical Director of Clinical Chemistry for UVMH, Dr. Clayton Wilburn (clayton.wilburn@uvmhealth.org).

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