

# Troponin T- 5<sup>th</sup> Generation, High-Sensitivity Critical Value and Reference Range Update Effective Date: December 3<sup>th</sup> 2024

Salem Health Laboratory would like to announce a change to the critical value and reference ranges for the Troponin T- 5<sup>th</sup> Generation, High Sensitivity test.

The current critical value for this test is set at **>19 ng/L**. That will change to be **≥52 ng/L**.

The Patient Testing and Interpretation Algorithm is not changing.

## Summary of Changes:

Feature	Current	New
<b>Critical Value</b>	19 ng/L	≥ 52 ng/L
<b>Reference Ranges (all genders)</b>	Normal= 0-19 ng/L Critically High= >19 ng/L	Normal= 0-19 ng/L High= 20-51 ng/L Critically High= ≥ 52 ng/L

## Additional information:

- A review of peer laboratories was done, and it was found that these changes are in line with generally accepted practices.
- The initial critical result will be phoned by lab staff. Subsequent critical results will not be phoned unless the level has dropped below the critical value of 52 ng/L, and is once again critically elevated (within the same visit/admission).
- **Epic order code: LAB8338**    **LIS order code: HSTNT**

ESC/ACC/AHA/WHF EXPERT CONSENSUS DOCUMENT  
**Fourth Universal Definition of Myocardial Infarction (2018)**  
*Circulation*. 2018;138:e618–e651.

Andrew Judd, MD    Laboratory Medical Director 503-561-5113  
Amanda Jacobson, MLS (ASCP)<sup>CM</sup>, Sr. Laboratory Specialist, Chemistry 503-814-1632