

# Reference Range Update



## Troponin Reference Range Change

Effective 10/16/2018, St. Luke's Laboratory will go-live with new Chemistry instrumentation and will therefore be using a new Troponin reagent. After conducting an internal validation, the accompanying reference range will change; however, the interpretation will remain the same.

**Old Troponin Reference Range:** 0.00 – 0.50 ng/mL

**New Troponin Reference Range:** 0.00 – 0.04 ng/mL

Patients with results between 0.04 ng/mL and 0.49 ng/mL represent results that are outside of the 99<sup>th</sup> percentile of a healthy population. Troponin results that exceed the 99<sup>th</sup> percentile concentration are strongly suggestive of cardiac injury, which can be from many causes such as myocarditis, arrhythmias, congestive heart failure, ischemia, angina, invasive cardiac procedures and developing or resolving myocardial infarction. Troponin concentrations of 0.04 ng/mL to 0.49 ng/mL require serial troponin measurements and clinical correlation to interpret.

All troponin results from St. Luke's Laboratory will include the following information:

<b>Concentration (ng/mL)</b>	<b>Interpretation</b>
<0.04	Normal
0.04-0.49	Serial troponin studies and clinical correlation required
≥0.50	Probable myocardial infarction

If you have questions, please contact Dr. Kristin Baer, M.D, Chemistry Medical Director (218) 249-5208, Amber LaMourea MT (ASCP), Immunology Technical Specialist (218) 249-5024, or Jennifer Viergutz, Laboratory Director (218) 249-5724.