

## Client Memo

**To:** Wake Forest Baptist Health Outreach Clients  
**Date:** March 31, 2017  
**Re:** New Instrumentation and Reference Range for the Analysis of Cardiac Troponin I (cTnI)

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**Effective April 3, 2017, at 9:00 AM**, the clinical laboratory will be **changing instrumentation and reference range for the analysis of cardiac Troponin I (cTnI)**. The clinical lab has adapted new instrumentation for the analysis of cardiac Troponin I using Beckman- Coulter instrumentation.

**Background:**

Troponin is a complex that regulates the contraction of striated muscle and consists of three subunits: C, T, and I. The cardiac isoform of Troponin I is released hours after myocardial infarction or ischemic damage. cTnI levels above the reference range along with clinical presentation are used by physicians to help aid in the diagnosis of a myocardial infarction.

**Assessment:**

The possibility exists for interference by heterophile antibodies in the patient sample. Patients who have been regularly exposed to animals or have received immunotherapy or diagnostic procedures utilizing immunoglobulins or immunoglobulin fragments may produce antibodies, e.g. HAMA, that interfere with immunoassays. Carefully evaluate the results of patients suspected of having these antibodies.

**Recommendations:**

Collect at least a minimum of 2mL of whole blood in a gold top tube, green top Lithium Heparin tube or a red top tube.

**Order the test under the test name TROPONIN I (LAB747).**

**Please note the new reference range and reportable range are as follows:**

**NCBH REFERENCE RANGE : < 0.025 ng/mL**

**NCBH Reportable range: < 0.020-80 ng/mL. Results reading greater than 80 = ng/mL will not be diluted and will be resulted as >80 ng/mL.**

**References: Troponin I, Serum. (n.d.). Retrieved May 23, 2016, from <http://www.mayomedicallaboratories.com/test-catalog/Clinical+and+Interpretive/81767>**

If you have any questions related to this test change, please contact the Core Laboratory at 716-2610.