



**PATHOLOGY
LABORATORIES**

A Sonic Healthcare Company

Client Communication

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CONVERSION TO HIGH SENSITIVITY TROPONIN T (HS-Troponin T)

Pathology Laboratories (PathLabs) is now offering a **High Sensitivity Troponin T assay** to replace the current “conventional” Troponin T assay. The **conventional Troponin I assay** will also continue to be available.

The following information regarding high sensitivity Troponin T will assist in this transition:

- Increased analytical sensitivity and reduction of interferences by heterophile antibodies
 - Reporting in whole numbers
 - Units will change from ng/mL to ng/L; while this is a 1000 difference, the results between the 2 generations of reagent are not interchangeable
 - Gender specific normal ranges :
 - ≤ 14 ng/L for females
 - ≤ 22 ng/L for males
- Previous to our conversion, the normal reference range was not specific for males and females and was < 0.03 ng/mL
- Assay range: 6 - 10,000 ng/L

Patients who present with symptoms suggestive of acute coronary syndrome should have HS-Troponin T testing interpreted in conjunction with clinical presentation, signs and symptoms and risk stratification with the HEART score. Baseline and serial Troponin elevation for significant delta will assist in differentiating between acute and chronic myocardial injury.

HS-Troponin T increases rapidly and can be detected within 1 hour after an AMI and may persist up to 2 weeks thereafter.

Of importance to outpatient practices, evidence suggests that Troponin I is more specific for myocardial injury in chronic renal failure patients than Troponin T. The state of the art “High Sensitivity” Troponin assays (including the HS-Troponin T assay that PathLabs now offers) have been shown to be superior to conventional Troponin assays for the early diagnosis of acute myocardial infarction. In chronic disease states, such as chronic renal failure, HS-Troponin assays demonstrate the same “increased but stable” concentration of Troponin as is seen in non-HS-Troponin assays.

If there are any questions, please contact your Account Executive or our Client Service Department. Thank you.

Thank you for supporting Pathology Laboratories.

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