

Date: 2019-03-26

To: Physicians

From: Dr. Julie St-Cyr & Dr. David Blank

Subject: Introduction of the the Beckman Coulter HS Troponin I assay

Dear Colleagues,

On March 28th, 2019, at noon (12:00), the Beckman Coulter HS Troponin I assay will be introduced in the following institutions: LGH, SMHC, LaSalle Hospital, and the MUHC (including Lachine).

This assay offers the following improvements:

- fewer falsely increased results, thus less repeat testing and delays in reporting;
- increased precision at lower concentrations.

In addition, there will be changes to reference ranges, reporting units and interpretive comments on the report such that the report will now indicate:

Reference range: 0 - 17.5 ng/L

MYOCARDIAL DAMAGE/INFARCTION IS RULED OUT IN PATIENTS IF:

Presenting with chest pain greater than 3 hours since onset, without clinical evidence of ischemia and hsTnI less than or equal to 6 ng/L in the initial sample.

OR:

hsTnI less than or equal to 17.5 ng/L in the initial sample **and** delta (change) less than or equal to 5 ng/L between 2 samples 3 hours apart.

CONSIDER MYOCARDIAL DAMAGE/INFARCTION IF:

hsTnI is greater than or equal to 87.5 ng/L in the initial sample **OR** delta (change) greater than or equal to 22 ng/L, 3 hours later, with clinical evidence of ischemia.

Please note that, on March 28th, 2019, when comparing Troponin I results reported before and after noon, you will need to multiply the first result by **1000** to convert **ng/mL into ng/L**. **This does not apply to the LGH as the reporting units had previously been changed to ng/L.**