Clinical Laboratory Test Update

Troponin I Discontinuation

New Test – High Sensitivity Troponin I

At approximately **8:00 AM on 12/14/2020**, the University of Colorado Hospital Clinical Laboratory must disable the current, conventional Troponin I Ultra order due to discontinuation of the test by the assay manufacturer. Concurrently, orders for a new High Sensitivity Troponin I assay will become available in Epic.

<table>
<thead>
<tr>
<th>HS Troponin I (Single Order)</th>
<th>HS Troponin I (LAB2030)</th>
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<tbody>
<tr>
<td>Order Panel (Inpatient)</td>
<td>HS-Troponin I (0, 1 &amp; 3 HOUR SAMPLES) IP</td>
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<tr>
<td>Specimen</td>
<td>Preferred - One 5mL green top with gel</td>
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| Storage/Transport           | Onsite: Deliver to lab immediately at ambient temperature  
                              | Offsite: Centrifuge within 60 minutes of collection  
                              | Transport to laboratory on cold pack. |
| Stability – after centrifugation | Room Temperature = 4 hours  
                                 | Refrigerated = 48 hours  
                                 | Frozen = 180 days |
| Reference Interval for result (99 percentile URL) | Female ≤ 14.9 ng/L  
                                                      | Male ≤ 19.8 ng/L  
                                                      | Unspecified in Epic ≤ 17.9 ng/L |
| CPT Code                    | 84484                   |

The new HS Troponin I assay will produce results that look very different (**see example below**):

- Numeric values *will be much larger* as compared to values for the old assay, because the new results will be reported in a different unit of measure (ng/L).
- Reference intervals *will vary* based on one’s sex.
- Most healthy patients will have measurable troponin I values.

You cannot directly compare values obtained from an older, conventional troponin assay (including point-of-care troponin values or values from other hospitals) to the new HS Troponin I values.
Because HS Troponin I elevations *unrelated to acute ischemia* also occur in other cardiac and systemic diseases, the 4th Universal Definition of Myocardial Infarction criteria for a clinical diagnosis of a Type I or Type II MI includes:

1. the elevated HS Troponin I value
   
   *AND*

2. a significant rise and/or fall in sequential HS Troponin I values
   
   *AND*

3. additional signs/evidence of acute myocardial ischemia

Providers with personalized favorites lists for test ordering will need to update their favorites lists with the HS Troponin I order to ensure there are no delays with performing this testing.

When a recent prior HS Troponin I result is available in Epic, a calculated absolute change “Delta” and relative change “% Change” will appear with the HS Troponin I value for convenience in assessing rising/falling values.

Please call Gregory Bocsi, DO at 720-848-7050 if you have any questions or visit our test catalog at [https://www.testmenu.com/universityhospital](https://www.testmenu.com/universityhospital) for additional information.

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