

To: UPHS Providers and Staff

From: **Charlene Bierl MD, PhD**, on behalf of the High Sensitivity Troponin Governance Team

Date: June 3, 2022

Re: **NEW High Sensitivity Troponin Arriving at 8 a.m. on Thursday, June 2**

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The new troponin significantly changes how we diagnose acute coronary syndromes (ACS) as well as acute myocardial injury. The new assay will rely much more heavily on incremental changes (deltas) in the context of the clinical presentation. By definition, the higher level of sensitivity will detect troponin in more people, including those without active ischemic events, which adds complexity to the interpretation. For this reason, **it is important that all members of the UPHS community who work with Troponin learn about the changes.**

- Important highlights:
  - Knowledge link education has been assigned to all providers.
    - Can also be found and self-assigned by searching for Troponin.
  - Test names: **Troponin T HS or Troponin I HS**
    - Hospital facility lists will only include the version that is available on site.
  - Collection is with a **Plasma (Li Heparin)** vacutainer.
  - Accurate **collection time documentation** and prompt sending to the lab is key for proper interpretation.
  - PennChart clinical decision support will provide integrated guidance for timely collection and interpretation of troponins for ACS according to the ACS Chest Pain Pathway.
  - LGH and CCH are already live with HS Troponin, so these changes are for the other entities.
- For more information, see the following resources:
  - <https://pennmedicine.sharepoint.com/sites/PennPathways/sitepages/pennpathways-Troponin.aspx>
- Launch details:

- High Sensitivity Troponin (5th generation) will be available starting at 8 a.m. on June 2, 2022. **For all new** patients after this date and time, only the High Sensitivity Troponin should be ordered.
- If an older 4th generation troponin is ordered before 8 a.m. and follow up testing is needed:
  - Place orders for both 4th generation troponin measurements at the same time.
  - If determination is made that a follow up 4th generation troponin is needed after 8 a.m., the test will be available for a limited time (until 9 p.m.) through the Troponin HS-Chest Pain Pathway order panel -> “4th gen troponin-for use ONLY during 5th gen go-live”. **Do not use this order for new patients that need troponins.**
- Updating SmartPhrases to High Sensitivity Troponins:
  - Since high sensitivity troponins are new assays, they are processed as a new lab in PennChart.
  - System SmartPhrases with a SmartLink that includes 4th generation troponin results will be automatically updated to also pull in high sensitivity 5th generation troponin results in the same SmartLink.
  - User SmartPhrases will not be automatically updated, but can be manually changed. Details are shown in [this tip sheets](#).