



TO: Medical Staff, House Staff, Patient Care Centers,
and Outpatient Clinics

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RE: Change in Confirmatory Platelet Activation Assay for Heparin-Induced
Thrombocytopenia, with Improved Turn-Around Time

As of 6/30/2022, UCM Coagulation Laboratory is changing the confirmatory testing for patients with intermediate probability of heparin-induced thrombocytopenia (HIT) after 4T/HEP scoring and screening laboratory testing.

Our primary confirmatory test will remain the Serotonin Release Assay (SRA), which will now be performed by Mayo Clinical Labs. The sample requirements and interpretation are similar, while the serotonin detection methodology has changed. The turn-around time is expected to be one day shorter.

We will also use the P-selectin exposure assay (PEA) as an alternative HIT confirmatory assay, or for further investigation of challenging cases.

The SRA and PEA will continue to be resultated with a UCM pathologist's interpretive report.

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| | Prior Serotonin Release Assay (SRA) | New Serotonin Release Assay (SRA) | New Alternative HIT confirmatory test (P-selectin exposure assay (PEA)) |
| Reference Lab | Versiti (Blood Centers of Wisconsin) | Mayo Clinical Lab | Versiti (Blood Centers of Wisconsin) |
| Sample Type | Serum | Serum | Serum |
| Method | ¹⁴ C-serotonin release | Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) | Flow cytometry |
| Cut-off for positivity | >20% release with low concentration heparin AND <20% release with high concentration heparin | >20% release with low concentration heparin AND <20% release with high concentration heparin | At least 35% P-selectin exposure AND at least 50% inhibition by high concentration heparin |
| Turn-around time | 1-3 weekdays in Versiti lab, plus 2 days transport | 1-3 weekdays in Mayo lab, plus 1 day transport | 1 weekday in Versiti lab, plus 2 days transport |

The EPIC order remains unchanged: “HIT Confirmatory Functional Study (PEA/SRA)”.

Until the EPIC test build is updated, SRA and PEA results will temporarily be reported in EPIC as a Miscellaneous Send-out. They will ultimately revert to being reported as “HIT Confirmatory Functional Study (PEA/SRA)” under ‘Coagulation’ section and ‘Thrombosis & Coagulation, Other’ sub-section of EPIC Results Review.

For questions, please contact Krzysztof Mikrut, Laboratory Manager, at 773-702-1315, or Geoffrey Wool, MD PhD, Medical Director, at 773-926-1455.