

To: Stanford Health Care and Stanford Medicine Children's Health Staff
From: Stanford Health Care Clinical Labs
Subject: New Test Order Code for Uric Acid Testing for Patients Receiving Rasburicase™, Effective 11/21/2022
Date: November 7, 2022

Introduction/Background

Tumor lysis syndrome occurs in malignancies such as lymphomas and leukemias. Hyperuricemia is a hallmark finding of tumor lysis syndrome. Rasburicase™ is a recombinant urate oxidase that is used to reduce uric acid concentrations in the blood. Blood for uric acid determination from patients receiving Rasburicase™ **must** be collected in a lithium heparin (mint-top) blood collection tube and immediately immersed in a biohazard bag with an ice-water slurry and transported to the clinical laboratory and tested within four hours of collection to ensure uric acid stability.

Impact

Effective 11/21/2022, the EPIC order code for uric acid testing for patients given Rasburicase™ is **LABURICRAS**. No other chemistry tests can be ordered or added to the blood collection tube with this uric acid test. Blood specimens for uric acid testing should be collected in lithium heparin tubes in an ice slurry for 96 hours after the last dose of the drug.

Note: Go-live for Tri-Valley to follow, by the end of year.

References

1. Pui CH, Mahmoud HH, Wiley JM, Woods GM, Leverger G, Camitta B, Hastings C, Blaney SM, Relling MV, Reaman GH. Recombinant urate oxidase for the prophylaxis or treatment of hyperuricemia in patients with leukemia or lymphoma. *J Clin Oncol*. 2001 Feb 1;19(3):697-704. doi: 10.1200/JCO.2001.19.3.697. PMID: 11157020.
2. Lim E, Bennett P, Beilby J. Sample preparation in patients receiving uric acid oxidase (rasburicase) therapy. *Clin Chem*. 2003 Aug;49(8):1417-9. doi: 10.1373/49.8.1417. PMID: 12881465

If you have any questions, please contact me at your earliest convenience.

Sincerely,

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