

To: URMC Clinicians
From: Tai C. Kwong, PhD
Director, Automated Laboratory
Re: New Laboratory Assays
Date: 1/14/11

On 1/26/2011, the Automated Laboratory will begin performing new assays that are currently being sent out to reference laboratories for testing. The new assays were compared to the current reference laboratory methods and correlated very well.

The new **CA 19-9** tumor marker assay will be run on a daily basis on our Roche Cobas e601 Immunoassay analyzers. The container type (SST) remains the same but there is a change to the reference range as follows:

Current range: < 55 U/mL
New range: < 36 U/mL

As required by NYS, we will be reporting the new tumor marker assay results in parallel with the current reference laboratory assay results (run on the Beckman Coulter Unicel DXI 800 at Mayo Laboratories) for 90 days, after which only the new in-house assays will be run and reported.

The Automated Laboratory will also begin performing the serum **Free Light Chain** on a Monday through Friday basis which should improve the turnaround time for results. The assays will be run on the Roche Modular analyzers, there will be no change in container type (SST) and the reference ranges remain the same as follows:

Kappa free light chain range: .33 – 1.94 mg/dL
Lambda free light chain range: 0.57 – 2.63 mg/dL
Kappa/lambda ratio range: 0.26 – 1.65

As required by NYS, we will be reporting the new Free Light Chain assay results in parallel with the current reference laboratory assay results (run by Nephelometry at ARUP Laboratories) for 90 days, after which only the new in-house assays will be run and reported.

Any questions can be directed to Dr. Kwong at x5-5654 or Tai_Kwong@urmc.rochester.edu