



TO: All Medical Staff

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Chair, Division of Clinical Pathology
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DATE: January 2, 2024

SUBJECT: Urine Free Light Chain Testing to be performed in-house

Effective January 16, 2024, the Clinical Immunology Laboratory will begin performing Urine Free Kappa and Lambda light chains in-house and will no longer be sent out to LabCorp. Our in-house testing uses an immunoturbidometric analytical method performed on the Biding Site Optilite system. Comparison testing between LabCorp and VCU Health showed excellent correlation. This test can be useful in monitoring patients with multiple myeloma or other clonal plasma cell dyscrasias. It is suggested that quantitative urine free light chain results be correlated with urine immunofixation electrophoresis.

Test Orderable: Kappa/Lambda Light Chains, Urine

Acceptable specimen: Urine, either random or 24-hour timed (total void) samples

Required volume: 1.5 mL urine

Turnaround Time: 1-5 days

Reference Interval: Urine Free Kappa light chain <32.90 mg/L
Urine Free Lambda light chain <3.79 mg/L
Urine Kappa/Lambda light chain ratio <8.68

If you have questions regarding any aspect of these changes, please contact Immunology Director, Dr. Justin B. Dalton, MD, at beeper 3162 or the laboratory at 628-4000.

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