

Physician MEMO

To | All Physicians and Allied Health Providers
From | Ken Jackson BSMT(ASCP) Manager Core Lab
Date | April 7, 2011
Re | U Protein: U Creatinine Ratio Alert

Practice Alert

S Situation

Currently the FMC Core Lab offers a U Protein: U Creatinine ratio on random urine samples with no interpretative data.

B Background

The U Protein: U Creatinine ratio in random untimed urine samples correlates with 24hr protein excretions.

A Assessment

To better serve our customers, the Core Lab will expand the U Protein: U Creatinine Ratio test to include the Estimated 24 hr Urine Protein. Correlation of single urine sample calculations correlate well with formal 24 hour urinary protein in patients with a broad spectrum of renal diseases, varying degrees of proteinuria, pregnancy, and a wide range of glomerular filtration rates.

R Recommendation

The Urine Protein: Urine Creatinine Ratio will now include the following tests:

- Urine Protein in mg/dL
- Urine Creatinine in mg/dL
- U Protein/U Creatinine Ratio The calculation is U Protein/U Creatinine
- Estimated 24 hr Urine Protein in mg/day. The calculation is (U Protein/U Creatinine) x 1000.
- Interpretive Text:

U Protein/U Creatinine ratio of <0.2 is normal.

U Protein/U Creatinine ratio of ≥ 0.3 highly correlates with a 24 hr U protein excretion of ≥ 300 mg/day

U Protein/U Creatinine ratio of >3.5 is nephrotic range proteinuria.

Q Questions

Please direct any questions to the Core Lab at 83701.