August 27, 2012 - Bellingham

24-Hour Urine for Creatinine Clearance Now Normalized to Body Surface Area

WHAT'S NEW?
Effective Tuesday, August 28, 2012 PeaceHealth Laboratories in Bellingham will begin reporting the 24-hour urine test for creatinine clearance normalized to the patient’s body surface area.

BACKGROUND
The amount of creatinine produced by a patient varies according to the lean body mass of the patient. Variations in height and weight could contribute to disparities in the calculated creatinine clearance. Normalizing to the patient’s BSA will yield the more clinically useful “corrected creatinine clearance.” The calculation for BSA requires that the patient’s height and weight be supplied.

The calculation for corrected creatinine clearance is:
\[ \text{mL/min} = \left( \frac{\text{serum creat/urine creat}}{\text{urine mL vol/1440 min}} \right) \times (1.73/\text{BSA}) \]

Where BSA is defined by the Dubois and Dubois\(^2\) formula:
\[ \text{BSA} (m^2) = 0.007184 \times \text{height(cm)}^{0.725} \times \text{weight(kg)}^{0.425} \]

UNIT CODE AFFECTED
32240 Creatinine Clearance

ORDERING AND SPECIMEN REQUIREMENTS
Ordering requirements remain the same and may be found in the online test menu at www.peacehealthlabs.org.

Specimen requirements: Please note the patient’s height and weight on the requisition. Testing is performed daily with results released the same day as testing.

QUESTIONS?
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REFERENCES
1. National Kidney Foundation Kidney Disease Outcome Quality Initiative (www.kidney.org)