

**April 23, 2009**

### **Laboratory Test Update**

**RE: Change to reference ranges for chemistry analytes beginning Tuesday, 21 April 2009. Please refer to the web site Test Directory for individual test reference ranges.**

New chemistry platforms (Beckman-Coulter DXC and DXI analyzers) will begin operation in the Core Laboratory on 00:01 AM Tuesday 21 April. Adoption of new technology platforms in the chemistry section of the Core Laboratory has necessitated changes to reference ranges for numerous chemistry analytes.

New reference ranges have been adopted on the basis of the kit manufacturer's reference range studies, in conjunction with in-house data assessed to be consistent with those reference ranges.

Most of the reference range changes are minor. However, a number of the analytes will have significantly different reference ranges to which we wish to draw specific attention especially with respect to impact on trending of results. These are as follows:

<b>Analyte</b>	<b>Units</b>	<b>Old reference range</b>	<b>New reference range</b>
Ammonia	ug/dL	9-33	16-60
Amylase	U/L	30-130	36-128
Creatine kinase	IU/L	Adult male: 20-170	Adult male: 49-397 *
		Adult Female: 20-135	Adult female: 38-234
CK-MB	ng/mL	<3% CK  (Activity measurement)	0.5-6.3  (Concentration measurement)
Lactate dehydrogenase	IU/L	Adult: 313-618	>15 years: 98-192 *
Lipase	U/L	23-240	14-51
Total iron binding capacity	ug/dL	250-450	261-478 **
Troponin I	ng/mL	<0.05	<0.04 ***
free thyroxine (FT4)	ng/dL	0.8-2.0	0.6-1.1

- Similarly scaled changes apply to other age categories
  - \*\* Calculated from transferrin measurement
  - \*\*\* Values are 20% lower in comparison to old assay
- Note: CKMB will no longer have a Total CK reported. CKMB as a concentration measurement.