

**LAB ALERT**

## Reference Interval Changes AND New Specimen Requirement Change for Prealbumin

September 15, 2015

Dear Regional Pathology Clients,

Effective September 16, 2015 new chemistry platforms (Beckman-Coulter AU and DXI analyzers) will begin operation in the Core Laboratory on the main campus. Adoption of the new technology platforms has necessitated changes to reference intervals for some chemistry analytes.

The new reference intervals have been adopted on the basis of manufacturer's reference range studies in conjunction with in-house data assessed for consistency. For the majority of tests, reference intervals will remain unchanged. Due to instrumentation analytical bias, a small number of analytes have altered reference intervals and these tests are highlighted in the chart below.

### **PREALBUMIN SPECIMEN REQUIREMENT CHANGE**

Only serum specimens (Red or Gold stoppered tubes) will be acceptable for Prealbumin testing effective 9/16/15.

### **REFERENCE RANGE CHANGES**

<b>ANALYTE</b>	<b>UNITS</b>	<b>OLD REFERENCE RANGE</b>	<b>NEW REFERENCE RANGE</b>
<b>Albumin</b>	g/dL	3.4-4.7	<b>3.5-5.1</b>
<b>Ammonia</b>	μmol/L	16-60 (arterial, venous)	<b>Venous samples: Male: 25-70 Female: 25-60  Not established for arterial samples</b>
<b>ALT</b>	IU/L	Male: 17-96 (male) Core Lab Male: 17-63 (male)	<b>M &amp; F: 7-52</b>
<b>Amylase</b>	IU/L	28-100	<b>20-70</b>

<b>Calcium</b>	mg/dl	8.9-10.3	<b>8.6 to 10.3</b>
<b>Chloride</b>	mmol/L	101-111	<b>98-107</b>
<b>FT3</b>	pg/ml	2.5-3.9	<b>2.0-3.2</b>
<b>Glucose</b>	mg/dl	For <b>random</b> : 70-125 mg/dl	For <b>random</b> : 70-139 mg/dl
<b>Haptoglobin</b>	mg/dl	36-195	<b>36-215</b>
<b>Iron</b>	µg /dL	Male: 45-182 Female: 28-170	<b>Male: 50-206 Female: 32-192</b>
<b>Potassium</b>	mmol/L	3.6-5.1	<b>3.5-5.1</b>
<b>Lipase</b>	IU/L	15-51	<b>15-60</b>
<b>TBIL</b>	mg/dL	7 days – 30 days:<11.7 1 month – 18 years:<2.0 Adult: 0.3 – 1.2	<b>7 days-1 month: &lt;11.7 1 month-18 years: &lt;2.0 &gt; 18 years: 0.3-1.0</b>

<b>URIC Acid</b>	mg/dL	Male: 1 - 9 years: 1.9 - 5.4 mg/dL 10 - 18 years:3.5 - 6.8 mg/dL ≥19 years:4.8 - 6.8mg/dL Female: 1-10 years:1.9 - 5.4 mg/dL 10 - 18 years:3.5 - 6.8 mg/dL ≥19 years:2.6 - 6.8 mg/dL	<b>Male and Female: 1 - 9 years: 1.9 - 5.4 mg/dL 10 - 18 years: 3.5 - 6.8 mg/dL ≥19 years: 3.0 - 6.8 mg/dL</b>
<b>Urine Amylase (Random specimens)</b>	IU/L	Male: 16-491 U/L Female:21-447 U/L	<b>M &amp; F: 21-447 U/L</b>

For any questions about these changes you may contact our Medical Director, Dr. Sam Pirruccello, (phone: 559-7707 or 763-3157, pager: 888-1640, e-mail: [spirrucc@unmc.edu](mailto:spirrucc@unmc.edu))

**24/7 Client Services 1-800-334-0459**