

## LAB ALERT

**Date: November 4, 2015**

### Reference Intervals and Specimen Requirement Changes for Chemistry Analytes

Dear Regional Pathology Clients,

Starting October 26, 2015 a new chemistry turbidimetric protein analyzer (Binding Site, UK) began operation in the Special Chemistry Laboratory. Adoption of the new technology platforms has necessitated changes to reference intervals for some chemistry analytes. We apologize for any inconvenience this may cause.

Due to instrumentation analytical bias, a small number of analytes have altered reference intervals and these tests are highlighted in the chart below. 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.

#### REFERENCE RANGE CHANGES effective 10/26/15

ANALYTE	UNITS	OLD REFERENCE RANGE	NEW REFERENCE RANGE
Albumin (serum)	mg/dL	3500-5200	<b>3100-4300</b>
Albumin (CSF)	mg/dl	<25	<b>14-26</b>
CSF IgG/Albumin Ratio	-	<0.20	<b>&lt;0.25</b>
Serum IgG/Albumin Ratio	-	0.15-0.41	<b>0.14-0.52</b>
CSF Index	-	0.00-0.81	<b>0.00-0.67</b>
IgG (serum)	mg/dl	1d-7d: 273-1660 8d-3y: 533-1078 4y-6y: 593-1723 7y-9y: 673-1734 10y-11y: 821-1835 12y-13y: 893-1823	0 – 2 year: <b>327-1270</b> 2 – 4 year: <b>468-1250</b> 4 – 6 year: <b>532-1340</b> 6 – 8 year: <b>454-1360</b> 8 – 10 year: <b>568-1360</b> 10 – 12 year: <b>568-1490</b>

		14y-15y: 842-2013 16y-19y:646-1864 >19 y: 700-1600	12 – 14 year: <b>664-1490</b> 14-18 year: <b>550-1440</b> >18 year: <b>610-1616</b>
<b>IgM (serum)</b>	mg/dl	40-230 (>19 year)	<b>25-191</b> (>19 year)  Pediatric ranges are in the process of evaluation
<b>IgA (serum)</b>	mg/dl	1d-7d: No references established 8d-3y: 24-121 4y-6y: 33-235 7y-9y: 41-368 10y-11y: 64-246 12y-13y: 70-432 14y-15y: 57-300 16-19 y: 74-419 >19: 70-400	Less than 1 year: <b>0-83</b> 1 – 3 year: <b>20-100</b> 4 – 6 year: <b>27-195</b> 7 – 9 year: <b>34-305</b> 10 – 11 year: <b>53-204</b> 12 – 13 year: <b>58-358</b> 14 – 15 year: <b>47-249</b> 16 – 19 year: <b>61-348</b> >19 year: <b>85-499</b>

**IgG, IgA and IgM SPECIMEN REQUIREMENT CHANGE:**

Only serum specimens (Red or Gold stoppered tubes) will be acceptable for IgG, IgA and IgM testing effective 10/26/15.

**SPECIMEN STABILITY CHANGES:**

**Ceruloplasmin:** Stable at 2-8°C for 3 days (previously, 8 days). For longer storage, keep specimen at -20°C.

**Alpha 1 Anti-trypsin:** Stable at 2-8°C for 2 days (previously, 8 days). For longer storage, keep specimen at -20°C.

If you have questions or concerns about these changes please contact 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**