October 28, 2009

To: Chiefs of Service, Attending Physicians, Housestaff, Nurses and Other Concerned Personnel

From: Eberhard Fiebig, M.D.  Alan Wu, Ph.D.
       Laboratory Director  Division Chief, Clinical Chemistry

Re: Changes to Copper and Zinc Testing

Due to budgetary constraints, effective November 3, 2009, the SFGH Clinical Chemistry Laboratory will no longer perform copper and zinc testing in-house. In consultation with the clinical services concerned, we are making the following changes to meet patient care needs:

1. We will no longer offer serum copper measurements unless approval is granted by the Laboratory Medicine Resident (Clinical Chemistry Lab Medicine pager: 650-997-9500). If approval is granted, samples will be sent to our reference laboratory (ARUP).

New Reference Ranges for Copper (ARUP):

<table>
<thead>
<tr>
<th>Age</th>
<th>Male</th>
<th>Female</th>
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</thead>
<tbody>
<tr>
<td>0 up to 6 months</td>
<td>20 – 70 µg/dL</td>
<td>20 – 70 µg/dL</td>
</tr>
<tr>
<td>7 months to 18 years</td>
<td>90 – 190 µg/dL</td>
<td>90 – 190 µg/dL</td>
</tr>
<tr>
<td>19 years and older</td>
<td>70 – 140 µg/dL</td>
<td>80 – 155 µg/dL</td>
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</tbody>
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2. All routine requests for serum zinc measurements will be sent to ARUP as well (no prior approval is necessary)

New Reference Range for Zinc (ARUP), male and female: 60 – 120 µg/dL.

3. The turnaround time for reporting results is expected to be unchanged from our current schedule (3 – 5 days). The new reference ranges will be automatically posted with test results. Test information for copper and zinc will be updated in the on-line Clinical Laboratory Manual website at: http://labmed.ucsf.edu/sfghlab/.

For questions or concerns, please contact Dr. Wu at 206-3540.