DATE: June 9, 2016
TO: UCH Medical Staff, Housestaff, Patient Care Centers, and Outpatient Clinics
FROM: Kathleen G. Beavis, MD, Interim Director of Laboratories and Director, Clinical Microbiology and Immunology Laboratories
RE: Change in Infectious Disease Serology Testing [Measles, Mumps, Rubella, Varicella Zooster virus (VZV), Toxoplasma gondii, Cytomegalovirus (CMV), Herpes1/Herpes 2 virus (HSV), Epstein-Barr virus (EBV), Lyme, Fluorescent treponemal antibody absorption (FTA)]

1. Effective June 9, 2016, the Clinical Microbiology/Immunology Laboratory will begin to perform the assays listed in the table below on the Bioplex 2200 using a multiplex flow immunoassay methodology.

2. Toxoplasma gondii IgM, HSV IgM, VZV IgM, Lyme IgM and IgG, will be discontinued and available as a send-out.

3. For serum specimens testing, FTA (Fluorescent treponemal antibody absorption) assay has been replaced with TPPA (Treponema pallidum particle agglutination). The current FTA assay performed in-house on CSF will be available as a send-out for CSF specimens only.

Ordering information and reference range update:

<table>
<thead>
<tr>
<th>Test name</th>
<th>Old method</th>
<th>NEW Epic CODE</th>
<th>New method: Multiplex flow immunoassay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxoplasma gondii IgG Ab</td>
<td>EIA, Quantitative</td>
<td>TOXPGQ</td>
<td>Quantitative</td>
</tr>
<tr>
<td></td>
<td>Negative: &lt;4 IU/mL</td>
<td></td>
<td>Negative:  ≤ 9 IU/mL</td>
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<tr>
<td></td>
<td>Equivocal: ≥ 4 - &lt;8 IU/mL</td>
<td></td>
<td>Equivocal: 10-11 IU/mL</td>
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<tr>
<td></td>
<td>Positive: ≥ 8 IU/mL</td>
<td></td>
<td>Positive:  ≥ 12 IU/mL</td>
</tr>
<tr>
<td>Rubella IgG Ab Quantitative</td>
<td>EIA, Quantitative</td>
<td>RUBGQ</td>
<td>Quantitative</td>
</tr>
<tr>
<td></td>
<td>Negative: &lt;5 IU/mL</td>
<td></td>
<td>Negative:  ≤ 7 IU/mL</td>
</tr>
<tr>
<td></td>
<td>Equivocal: ≥5 to &lt; 10 IU/mL</td>
<td></td>
<td>Equivocal: 8-9 IU/mL</td>
</tr>
<tr>
<td></td>
<td>Positive: ≥ 10 IU/mL</td>
<td></td>
<td>Positive:  ≥ 10 IU/mL</td>
</tr>
<tr>
<td>Cytomegalovirus IgM Ab</td>
<td>IFA, Titer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cytomegalovirus IgG Ab</td>
<td>EIA, Semi quantitative</td>
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<tr>
<td>EBV Capsid Ag IgG Ab</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>EBV Nuclear Ag IgG Ab</td>
<td>IFA</td>
<td></td>
<td>Negative</td>
</tr>
<tr>
<td>EBV Early Ag IgG Ab</td>
<td>IFA</td>
<td></td>
<td>Equivocal</td>
</tr>
<tr>
<td>EBV Capsid Ag IgM Ab</td>
<td></td>
<td></td>
<td>Positive</td>
</tr>
<tr>
<td>Heterophile Ab</td>
<td>Agglutination</td>
<td>EBVH</td>
<td></td>
</tr>
<tr>
<td>Herpes simplex 1 and 2 IgG Ab</td>
<td>EIA, Qualitative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measles IgG Ab</td>
<td>Previously send out</td>
<td>MEASG</td>
<td></td>
</tr>
<tr>
<td>Mumps IgG Ab</td>
<td>EIA qualitative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rubella IgG Ab Qualitative</td>
<td>N/A</td>
<td>RUBG</td>
<td></td>
</tr>
<tr>
<td>Rubella IgM Ab</td>
<td>Previously send out</td>
<td>RUBG</td>
<td></td>
</tr>
<tr>
<td>Varicella IgG Ab</td>
<td>EIA qualitative</td>
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</tbody>
</table>

IU = International Units
Specimen collection and transport (no changes):
1) Collect 2 mL blood per assay in a Red top tube.
2) Transport to laboratory within 2 hours.
3) Hemolysed samples will be rejected.

Turnaround time: Testing will be performed within 24 hours (Monday through Friday).

Reporting: *Toxoplasma gondii* IgG and Rubella IgG results will be reported in International Units (IU). All other assays will be reported as Negative, Equivocal or Positive. For further information see the Laboratory Handbook. If you have any questions, please contact Ana Flores, Chief Technologist, Clinical Microbiology and Immunology Laboratories at 773-702-6618, or Vera Tesic, MD, Asst. Director at 773-702-2677.