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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 Zoster 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:

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

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.