



# LABORATORY ALLIANCE of Central New York, LLC

## Infectious Diseases - Serological Testing Update

Historically, serological testing for infectious diseases has been performed via indirect fluorescent antibody (IFA) assay. This 1980's methodology yielded *antibody titers*, reported as the highest dilution with detectable positivity (e.g. 1:320). Within the last decade, IFA has been replaced by enzyme-linked immunosorbent assay (ELISA) and EIA-based testing. Results of these assays are reported as *antibody indices*, as compared to known standards. Although reported as numerical values, indices are interpretable only as positive or negative in comparison to assay-specific reference ranges. Antibody indices are not titers and are not intended to be used quantitatively. Above the positive cutoff, detection quickly becomes nonlinear, and numerical values are not meaningful.

**As of December 28, 2009, Laboratory Alliance will convert all orders requesting "titers" as follows:**

Anti-DNase-B titers	→	Anti-DNase-B Antibody, Total
Anti-Streptolysin O titers	→	Anti-Streptolysin O Antibody, Total
B. burgdorferi (or Lyme) titers	→	Lyme Disease Antibodies, IgG/IgM
Cytomegalovirus (CMV) titers	→	CMV Antibodies, IgG & IgM
Diphtheria, Tetanus titers	→	Diphtheria, Tetanus Antibody, IgG
Epstein Barr Virus (EBV) titers	→	EBV Evaluation (Antibody Panel)
Helicobacter pylori titers	→	Helicobacter pylori Antibodies, IgG & IgM
Hepatitis titers	→	Hepatitis Profile, Acute
Hepatitis A Virus titers	→	Hepatitis A Virus Antibody Panel, Total & IgM
Hepatitis B Virus titers	→	Hepatitis B Virus Surface Antibody, Quantitative
Hepatitis C titers	→	Hepatitis C Virus Antibody, Total
Herpes Simplex Virus (HSV) titers	→	HSV 1/2 Antibodies, IgG & IgM with Reflex to Type 1 & 2 Glycoprotein G-Specific Ab, IgG
Mumps titers	→	Mumps Virus IgG (Immune Status)
Mycoplasma pneumoniae titers	→	M. pneumoniae Antibodies, IgG & IgM
Parvovirus B19 titers	→	Parvovirus (Fifth Disease) Antibodies, IgG & IgM
Rubella titers	→	Rubella Antibody, IgG
Rubeola (Measles) titers	→	Rubeola Antibody, IgG
Strep. pneumoniae (or pneumococcus) titers	→	Strep. pneumoniae Antibodies (IgG), 14 serotypes
Toxoplasma titers	→	Toxoplasma gondii Antibody, IgG/IgM
T. pallidum (or Syphilis) titers	→	Syphilis Screen, T. pallidum Ab IgG/IgM
Varicella-Zoster Virus titers	→	Varicella-Zoster Virus Antibodies, IgG

Orders for specific immunoglobulin "titers" (e.g. Lyme IgM titers) will also be appropriately converted.

For questions or concerns regarding these test services, please contact Ms. Cheryl Haskins, Chemistry Manager, at 315-410-7014.