



To: Penn Medicine Physicians and Staff

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From: Malek Kamoun, MD, PhD
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Re: New assay methods for CMV, Measles, Mumps and Varicella IgG

Beginning on March 30, 2020, Penn Medicine Pathology and Laboratory Medicine will change these current antibody assay methods: CMV, Measles, Mumps, and Varicella. These assays will now be performed on the DiaSorin Liaison XL chemiluminescent analyzer which replaces the Trinity ELISA method performed on the DSX analyzer. Validation studies showed excellent correlation between the current and new methods.

CMV IgG antibody assay

The reference range and units of measure have changed from a positive cutoff of >1.1 units for the old assay, to ≥ 0.70 U/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <0.60 U/mL

Equivocal: ≥ 0.60 to <0.70 U/mL

Positive: ≥ 0.70 U/mL

Measles (Rubeola) IgG antibody assay

The reference range and units of measure have changed from a positive cutoff of >1.1 Index Value for the old assay, to ≥ 16.5 AU/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: < 13.5 AU/mL

Equivocal: ≥ 13.5 to < 16.5 AU/mL

Positive: ≥ 16.5 AU/mL

Mumps Virus IgG antibody assay

The reference range and units of measure have changed from a positive cutoff of >1.1 Index Value for the old assay, to ≥ 11.0 AU/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <9.0 AU/mL

Equivocal: ≥ 9.0 to <11.0 AU/mL

Positive: ≥ 11.0 AU/mL

Varicella-Zoster Virus IgG antibody assay

The reference range and units of measure have changed from a positive cutoff of >1.1 Index Value for the old assay, to ≥ 165.0 Index Value for the new assay.

Interpretive information for the new assay will be as follows:

Negative: < 135.0 Index Value

Equivocal: ≥ 135.0 to < 165.0 Index Value

Positive: ≥ 165.0 Index Value

The order codes and tube type (SST) will not change.

For clinical questions related to this change, please contact the Immunology Resident at 215-980-9871. For operational questions related to this change, please contact Joyce Gonzalez at Joyce.Gonzalez@pennmedicine.upenn.edu or 215-662-6023.