



To: Penn Medicine Physicians and Staff

Date: 5/8/2020

From: Malek Kamoun, MD, PhD
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Re: New assay methods for EBV VCA IgG, EBV VCA IgM, EBV EBNA, EBV EA IgG

Beginning on May 11, 2020, Penn Medicine Pathology and Laboratory Medicine will change these current antibody assay methods: EBV VCA IgG, EBV VCA IgM, EBV EBNA, EBV EA IgG. These assays will now be performed on the DiaSorin Liaison XL chemiluminescent analyzer which replaces the Euroimmun ELISA method performed on the DSX analyzer. Validation studies showed excellent correlation between the current and new methods.

EBV VCA 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 ≥ 22.0 U/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <18.0 U/mL

Equivocal: ≥ 18.0 to <22.0 U/mL

Positive: ≥ 22.0 U/mL

EBV VCA IgM antibody assay

The reference range and units of measure have changed from a positive cutoff of >1.1 units for the old assay, to ≥ 44.0 U/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <36.0 U/mL

Equivocal: ≥ 36.0 to <44.0 U/mL

Positive: ≥ 44.0 U/mL

EBV EBNA 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 ≥ 22.0 U/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <18.0 U/mL

Equivocal: ≥ 18.0 to <22.0 U/mL

Positive: ≥ 22.0 U/mL

EBV EA 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 ≥ 11.0 U/mL for the new assay.

Interpretive information for the new assay will be as follows:

Negative: <9.0 U/mL

Equivocal: ≥ 9.0 to <11.0 U/mL

Positive: ≥ 11.0 U/mL

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.