Lab Dept: Serology

Test Name: N. MENINGITIDIS IGG VACCINE RESPONSE

**General Information**

Lab Order Codes: MVR

Synonyms: Meningococcal IgG Vacc Response

CPT Codes: 86741x4 – Neisseria meningitidis

Test Includes: Serogroup A, Serogroup C, Serogroup Y and Serogroup W-135 reported in ug/mL.

**Logistics**

Test Indications: Useful in monitoring meningococcal vaccine response.

Lab Testing Sections: Serology - Sendouts

Referred to: Mayo Medical Laboratory forward to Focus Diagnostics (MML Test# 91669/FNMEN)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 - 9 days

Special Instructions: N/A

**Specimen**

Specimen Type: Blood

Container: Red top tube

Draw Volume: 1.5 mL (Minimum: 0.9 mL) blood

Processed Volume: 0.5 mL (Minimum: 0.3 mL) serum

Collection: Routine venipuncture
Special Processing: Lab Staff: Centrifuge specimen. Remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly.

Patient Preparation: None

Sample Rejection: Unlabeled or mislabeled specimens, specimens other than serum

Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Pre-vaccination reference ranges:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serogroup A</td>
<td>&lt;4.0 ug/mL</td>
</tr>
<tr>
<td>Serogroup C</td>
<td>&lt;5.0 ug/mL</td>
</tr>
<tr>
<td>Serogroup Y</td>
<td>&lt;4.0 ug/mL</td>
</tr>
<tr>
<td>Serogroup W-135</td>
<td>&lt;3.0 ug/mL</td>
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This assay measures serum IgG antibodies recognizing polysaccharide antigens from the four Neisseria meningitidis serogroups included in the licensed meningococcal vaccine. The meningococcal vaccine response is best evaluated by testing pre-vaccination and post-vaccination samples in parallel. A two-fold or greater increase for at least two sero-groups is expected when comparing post-vaccination to pre-vaccination results. N. meningitidis IgG levels peak approximately one month post-vaccination, but decline markedly by two years.

Test performed by: Focus Diagnostics, Inc.

Critical Values: N/A

Limitations: N/A

Methodology: Multi-Analyte Immunodetection (MAID)

References: [Mayo Medical Laboratories Web Page](http://www.mayoclinic.org) (July 2015)