### General Information

**Lab Order Codes:** MVR  
**Synonyms:** Meningococcal IgG Vacc Response  
**CPT Codes:** 86317x4 – Immunoassay for infectious agent, quantitative, not otherwise specified  
**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 Lab forward to Quest Diagnostics (MML Test: FNMEN)  
**Phone Numbers:**  
- MIN Lab: 612-813-6280  
- STP Lab: 651-220-6550  
**Test Availability:** Daily, 24 hours  
**Turnaround Time:** 3 - 11 days  
**Special Instructions:** N/A

### Specimen

**Specimen Type:** Blood  
**Container:** SST (Gold, marble or red) top  
**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

**Reference Range:**

<table>
<thead>
<tr>
<th>Pre-vaccination reference ranges:</th>
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<tbody>
<tr>
<td>Serogroup A</td>
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<tr>
<td>Serogroup C</td>
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<tr>
<td>Serogroup Y</td>
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<tr>
<td>Serogroup W-135</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 (September 2017)

**Updates:**
10/4/2017: CPT update