<table>
<thead>
<tr>
<th><strong>Lab Dept:</strong></th>
<th>Serology</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test Name:</strong></td>
<td>POLIOVIRUS ANTIBODY</td>
</tr>
</tbody>
</table>

**General Information**

<table>
<thead>
<tr>
<th><strong>Lab Order Codes:</strong></th>
<th>PVIS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synonyms:</strong></td>
<td>Poliovirus Antibody, Neutralization</td>
</tr>
<tr>
<td><strong>CPT Codes:</strong></td>
<td>86382 x2 – Neutralization, virus</td>
</tr>
<tr>
<td><strong>Test Includes:</strong></td>
<td>Poliovirus Type 1 &amp; 3 Antibody, each reported as a titer.</td>
</tr>
</tbody>
</table>

**Logistics**

<table>
<thead>
<tr>
<th><strong>Test Indications:</strong></th>
<th>Assessing immunity following poliovirus vaccination, as well as determining the poliovirus serotype responsible for recent poliovirus infection. Also serves as an aid for diagnosing immune deficiency disorders.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lab Testing Sections:</strong></td>
<td>Serology - Sendouts</td>
</tr>
<tr>
<td><strong>Referred to:</strong></td>
<td>Mayo Medical Laboratories forward to Focus Diagnostics (MML Test: FPOLO)</td>
</tr>
<tr>
<td><strong>Phone Numbers:</strong></td>
<td>MIN Lab: 612-813-6280</td>
</tr>
<tr>
<td></td>
<td>STP Lab: 651-220-6550</td>
</tr>
<tr>
<td><strong>Test Availability:</strong></td>
<td>Daily, 24 hours</td>
</tr>
<tr>
<td><strong>Turnaround Time:</strong></td>
<td>3 - 7 days, test set-up Monday and Thursday</td>
</tr>
<tr>
<td><strong>Special Instructions:</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Specimen**

<table>
<thead>
<tr>
<th><strong>Specimen Type:</strong></th>
<th>Blood</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Container:</strong></td>
<td>SST (Gold, marble or red top tube)</td>
</tr>
<tr>
<td><strong>Draw Volume:</strong></td>
<td>3 mL (Minimum: 1.5 mL) blood</td>
</tr>
<tr>
<td><strong>Processed Volume:</strong></td>
<td>1 mL (Minimum: 0.5 mL) serum</td>
</tr>
<tr>
<td><strong>Collection:</strong></td>
<td>Routine venipuncture</td>
</tr>
</tbody>
</table>
**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:**
Mislabeled or unlabeled specimen

**Interpretive**

**Reference Range:**
- Polio 1 Titer: <1:8
- Polio 3 Titer: <1:8

The presence of neutralizing serum antibodies (titers 1:8 up to >1:128) against polioviruses implies lifelong immunity. Some persons without detectable titers (<1:8) may also be immune as demonstrated by elicitation of a secondary-type serum antibody response upon challenge with live polio vaccine.

**Critical Values:**
N/A

**Limitations:**
N/A

**Methodology:**
Culture/Neutralization

**References:**
- Mayo Medical Laboratories, July 2016
- Focus Diagnostics, July 2016

**Updates:**
- 3/2/2004: Test moved form Lab Corp to MML (forward to Focus Laboratory). Test previously measured IgG antibody and now measure total antibody.
- 8/20/2012: Updated MML order code and reference range information.
- 12/16/2013: Method update, previously listed as Complement Fixation.
- 6/27/2016: Polio Virus 2 is no longer reported per the reference lab.