Lab Dept: Chemistry

Test Name: IGG (IMMUNOGLOBIN G)

General Information
Lab Order Codes: IGG
Synonyms: Immunoglobulin G
CPT Codes: 82784 – Gammaglobulin; IgG, each
Test Includes: IgG concentration reported in mg/dL.

Logistics
Test Indications: Immunoglobulins, also known as humoral antibodies, recognize antigens and initiate mechanisms that destroy antigens. The major immunoglobulin produced by plasma cells is IgG, which makes up 70-75% of the total immunoglobulins. The major function of IgG appears to be neutralization of toxins (bacterial or viral) in tissue spaces.
Lab Testing Sections: Chemistry
Phone Numbers: MIN Lab: 612-813-6280
STP Lab: 651-220-6550
Test Availability: Daily, 24 hours
Turnaround Time: 1 day
Special Instructions: N/A

Specimen
Specimen Type: Blood
Container: Green top (Li Heparin) tube, preferred
Alternate: Red, marble or gold top tube
Draw Volume: 0.6 mL blood
Processed Volume: 0.2 mL serum/plasma
Collection: Routine venipuncture
**Special Processing:**
Lab Staff: Centrifuge specimen, remove aliquot into a plastic sample cup. Specimens can be stored at refrigerated temperatures for 7 days. Centrifuge turbid or particulate samples prior to analysis.

**Patient Preparation:**
None

**Sample Rejection:**
Mislabeled or unlabeled specimen, turbid samples that do not clear after centrifugation

### Interpretive

<table>
<thead>
<tr>
<th>Age</th>
<th>Range (mg/dL):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Newborn:</td>
<td>611 - 1542 mg/dL</td>
</tr>
<tr>
<td>1 month:</td>
<td>241 - 870 mg/dL</td>
</tr>
<tr>
<td>2 months:</td>
<td>198 - 577 mg/dL</td>
</tr>
<tr>
<td>3 months:</td>
<td>169 - 536 mg/dL</td>
</tr>
<tr>
<td>4 - 6 months:</td>
<td>165 - 781 mg/dL</td>
</tr>
<tr>
<td>7 - 9 months:</td>
<td>282 - 1026 mg/dL</td>
</tr>
<tr>
<td>10 months - 1 year:</td>
<td>331 - 1165 mg/dL</td>
</tr>
<tr>
<td>2 years:</td>
<td>407 - 1009 mg/dL</td>
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<tr>
<td>3 years:</td>
<td>423 - 1090 mg/dL</td>
</tr>
<tr>
<td>4 - 5 years:</td>
<td>445 - 1187 mg/dL</td>
</tr>
<tr>
<td>6 - 8 years:</td>
<td>608 - 1229 mg/dL</td>
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<tr>
<td>9 - 10 years:</td>
<td>584 - 1509 mg/dL</td>
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<tr>
<td>&gt;10 years:</td>
<td>734 - 1570 mg/dL</td>
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</tbody>
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**Critical Values:**
N/A

**Limitations:**
N/A

**Methodology:**
Nephelometry, Siemens Dimension Vista 500

**References:**
Updates: 2/8/2016: Update alt tube types