Lab Dept: Chemistry
Test Name: INTRA-OPERATIVE PTH, RAPID INTACT

**General Information**

Lab Order Codes: IPTHC

Synonyms: PTH, Rapid; PTH, Intact; PTH; Parathyroid Hormone

CPT Codes: 83970 – Assay of parathormone (PTH)

Test Includes: Parathyroid Hormone test reported in pg/mL

**Logistics**

Test Indications: Rapid measurement of PTH levels is now frequently used intra-operatively to confirm that an adenoma has been successfully removed; this technique is used particularly during less invasive procedures involving limited neck exploration after pre-operative localization of the putative adenoma. Currently, most available rapid intra-operative assays are intact PTH assays measuring both PTH(1-84) and PTH(7-84)

Lab Testing Sections: Chemistry - Minneapolis Campus

Phone Numbers: MIN Lab: 612-813-6280  
STP Lab: 651-220-6550

Test Availability: Daily, call lab the morning of the procedure to inform Minneapolis Lab

Turnaround Time: 40 minutes upon receipt in lab

Special Instructions: Only available at Children's Hospital, Minneapolis Campus. Please call lab the morning of the procedure to notify Lab of the need for Intraoperative STAT testing.

**Specimen**

Specimen Type: Blood

Container: Lavender (EDTA) tube

Draw Volume: 1.5 mL (Minimum 0.6 mL) blood
**Processed Volume:** 0.5 mL (Minimum: 0.2 mL) plasma

Note: Submission of the minimum volume does not allow for repeat testing.

**Collection:** Collected in surgery by surgical staff and brought immediately to the Minneapolis Main Laboratory (See Special Instructions)

**Special Processing:** OR Staff:

1. Include a phone number on the requisition for the lab tech to call results, if required.

2. Ensure specimen is properly labeled.

3. Deliver immediately to the Minneapolis Main Laboratory and notify them of the need for STAT processing.

**Lab Staff:**
Minimum sample volume requires the sample to be aliquoted into an Architect sample cup and placed atop a barcoded Sendout tube. Label the Architect cup with a foot label.

Run specimen STAT and call results via phone number provided if requested.

**Patient Preparation:** N/A

**Sample Rejection:** Mislabeled or unlabeled specimens

### Interpretive

<table>
<thead>
<tr>
<th>Age:</th>
<th>Range (pg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birth – &lt;1 year:</td>
<td>6 – 88 pg/mL</td>
</tr>
<tr>
<td>1 – &lt;9 years:</td>
<td>15 – 665 pg/mL</td>
</tr>
<tr>
<td>9 – &lt;17 years:</td>
<td>22 – 88 pg/mL</td>
</tr>
<tr>
<td>&gt;17 years:</td>
<td>15 – 65 pg/mL</td>
</tr>
</tbody>
</table>

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Chemiluminescence Immunoassay
References:


Caliper Paediatric Reference Interval, The Hospital for SICK Childrens, Toronto, Ontario, Canada

Updates:
5/1/2018: Collection container changed from Red NO GEL to Lavender EDTA.