Lab Dept: Coagulation

**Test Name:** PLATELET FUNCTION ASSAY

### General Information

**Lab Order Codes:** PFAS

**Synonyms:** PFA; Platelet Function Screen

**CPT Codes:** 85576 x 2 – Platelet; aggregation (in vitro), each agent

**Test Includes:** Collagen/Epinephrine & Collagen/ADP

### Logistics

**Test Indications:** The test is useful in detecting platelet dysfunction which may be acquired (uremia), inherited (von Willebrand disease) or induced by inhibiting agents (aspirin).

**Lab Testing Sections:** Coagulation

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

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 4 hours

**Special Instructions:** N/A

### Specimen

**Specimen Type:** Whole blood

**Container:** Light Blue top (Buffered Na Citrate 3.2%) tube

**Draw Volume:** 2.7 mL blood

**Processed Volume:** Minimum: 2.7 mL whole blood
Collection:
• A clean venipuncture is essential, avoid foaming.
• Entire sample must be collected with single collection, pooling of sample is unacceptable.
• Capillary collection is unacceptable.
• Patient’s with a hematocrit level >55% must have a special tube made to adjust for the hematocrit; contact lab for a special tube.
• Mix thoroughly by gentle inversion. Deliver immediately to the laboratory at room temperature via courier or pneumatic tube.
• Do not combine other coagulation tests in the same tube with a PFA.

Off campus collections:
• Must be tested within 4 hours.
• Do not refrigerate.
• Do not centrifuge.

Special Processing: Lab Staff: Do Not centrifuge.

Patient Preparation: None

Sample Rejection: Improper tube; clotted specimens; underfilled tube; hemolyzed specimen; patient’s hematocrit <30%; centrifuged samples; mislabeled or unlabeled specimens

Interpretive

<table>
<thead>
<tr>
<th>AGE</th>
<th>RANGE</th>
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<tbody>
<tr>
<td>&lt;31 days</td>
<td>COL/EPI 64 – 98 seconds</td>
</tr>
<tr>
<td></td>
<td>COL/ADP 50 – 62 seconds</td>
</tr>
<tr>
<td>&gt;31 days</td>
<td>COL/EPI 91 – 199 seconds</td>
</tr>
<tr>
<td></td>
<td>COL/ADP 65 – 121 seconds</td>
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</tbody>
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Critical Values: N/A

Limitations: Testing is invalid in patients with an HCT <30%, elevated ESR or platelet count <50,000.

Methodology: Simulated in vitro platelet adhesion and aggregation

Contraindications: Patient receiving anti-platelet drugs.

Updates:

11/5/2007: Changed required volume from 5.4 to 2.7 mL. Removed statement regarding prohibiting pneumatic tube transport.
3/3/2008: Added statement to leave at room temp and transport to lab via courier or pneumatic tube.
7/8/2014: Add additional info for off-campus collections.