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

**Reference Range:** 

| AGE:     | RANGE:                   |
|----------|--------------------------|
| <31 days | COL/EPI 64 – 98 seconds  |
|          | COL/ADP 50 – 62 seconds  |
|          |                          |
| >31 days | COL/EPI 91 – 199 seconds |
|          | COL/ADP 65 – 121 seconds |

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.

**References:** Rand ML, et al (1998) Use of PFA-100 in the Assessment of Primary,

Platelet-Related Hemostasis in the Pediatric Setting, Seminars in

Thrombosis and Hemostasis 24:6

**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.

9/15/2014: Off campus collect info amended.