

REGIONAL PATHOLOGY SERVICES

DEPARTMENT OF PATHOLOGY AND MICROBIOLOGY

PFA 100 Platelet Function Screen

Test Overview: On March 24, 2008, the Core Laboratory will begin offering platelet function screening by the PFA-100 assay system. The system measures the ability of platelets to occlude a microscopic aperture (closure time) under high shear rates. Platelet function is first measured with a Collagen/Epinephrine (COL/EPI) cartridge and if a normal closure time is observed no further testing is performed. If the COL/EPI closure time is prolonged the platelets are evaluated with a Collagen/ADP (COL/ADP) cartridge.

Clinical Significance: Platelet function screening. Replaces Bleeding Time studies.

Method: Dade Behring Instrument

Availability: Daily, routine or STAT; results same day.

Specimen: Blood

Collect: One 5.0 mL Sodium Citrate (Light Blue) tube. Tube must be full.

Volume: 5.0 mL

Transport: Room Temperature. Tube must be transported to lab within 4 hours of collection.

Unacceptable Conditions: Tubes centrifuged or on ice.

Reference Range: Reference Interval
COL/EPI ≤ 185 seconds
COL/ADP ≤ 122 seconds

	<u>Normal</u>	<u>Aspirin-like Effect</u>	<u>*vWD or intrinsic platelet defect</u>
COL/EPI	normal	prolonged	prolonged
COL/ADP	normal	normal	prolonged

Interpretation with report. Platelet count and Hematocrit reported with results.

CPT Code: 85576/Add 85576 if reflex performed.

Additional Information: An order for PFA-100 platelet function screening will include an order for hematocrit and platelet count. Platelet counts <150,000/uL or hematocrit <35% are associated with prolonged closure times. A comment will be appended to the PFA-100 results if one or both cartridges reveal prolonged closure times and either the platelet count or hematocrit are decreased. Standard platelet aggregation studies may be indicated if prolonged closure times are noted with both the COL/EPI and COL/ADP cartridges.