



TECHNICAL NOTICE

SOUTH BEND MEDICAL FOUNDATION

June 2010

UPDATE ON PLATELET FUNCTION TESTING

A number of platelet function tests are offered by the South Bend Medical Foundation. A description of these tests and proper utilization are described below.

PLATELET AGGREGATION, WHOLE BLOOD

Use: The procedure is intended to detect inherited platelet abnormalities and von Willebrand's Disease and may also be abnormal in patients with acquired platelet abnormalities including drug induced disorders and medical conditions such as uremia.

Test Name: Platelet Aggregation, Whole Blood

Test # 25044

Patient preparation and test requirements: Patient should be off drugs that interfere with platelet function for 7 days. Platelet count must be $>100,000/\mu\text{L}$.

A scheduled appointment is required for this test.

Sample: Collect two 4.5 mL blue Vacutainer® tubes containing Sodium Citrate 3.2%. Invert gently to mix. Do not spin tube. Transport at ambient temperature. Sample must be tested within one hour of collection.

PLATELET FUNCTION ANALYSIS BY PFA-100

Use: The PFA-100[®] is an instrument and test cartridge system in which the platelet processes of adhesion simulates vascular injury and response. It can be used instead of the bleeding time to screen for inherited and acquired platelet disorders.

Test Name: Platelet Function Test **Test # 25113**

Patient preparation and test requirements: None

Sample: Collect one 4.5 mL blue Vacutainer® tube containing Sodium Citrate 3.2%. Invert gently to mix. Do not spin tube. Transport at ambient temperature. Sample must be tested within four hours of collection.

PLATELET FUNCTION FOR ASPIRIN

Use: The test is used to determine if the patient's platelets are sufficiently inhibited by aspirin therapy.

Test Name: Platelet Function for Aspirin.

Test # 25114

Patient preparation and test requirements: None

Sample: Whole blood sample must be collected in or immediately transferred to a Greiner Vacuette® 2.0 mL blue top tube containing Sodium Citrate 3.2% (SBMF supply # 11460). The tube must be filled to its intended whole blood capacity indicated by small black arrow. Alternate tubes are not acceptable. Invert gently to mix. Do not spin tube. Transport at ambient temperature. Sample must be tested within four hours of collection.

PLATELET FUNCTION FOR P2Y12

Use: The test is used to determine if the patient's platelets are sufficiently inhibited by thienopyridine drugs including Plavix® (clopidogrel), Effient® (prasugrel) and Ticlid® (ticlopidine).

Test Name: Platelet Function for P2Y12

Test # 25053

Patient preparation and test requirements: None

Sample: Whole blood sample must be collected in or immediately transferred to a Greiner Vacuette® 2.0 mL blue top tube containing Sodium Citrate 3.2% (SBMF supply # 11460). The tube must be filled to its intended whole

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blood capacity indicated by small black arrow. Alternate tubes are not acceptable. Invert gently to mix. Do not spin tube. Transport at ambient temperature. Sample must be tested within four hours of collection.

CYTOCHROME P450 2C19 (CYP2C19) 7 MUTATIONS

Use: A pre-therapeutic test to identify individuals who should avoid, or may require unconventional doses of medications metabolized by CYP2C19. Or for patients with a personal or family history of adverse drug reactions to medications metabolized by CYP2C19, including Plavix® (clopidogrel).

Test Name: Cytochrome p450 2c19 by TAG-IT **Test # 45287**

Patient preparation and test requirements: None

Sample: Collect one 3 mL lavender (EDTA) or pink (K₂EDTA) or yellow (ACD Solution A or B) tube.

Storage/Transport Temperature: 3 mL whole blood (minimum volume 1 mL,) refrigerated at 2-8°C.

Stability (collection to initiation of testing): Ambient: 3 days; Refrigerated: 1 week; Frozen: Unacceptable

Please direct any questions, or comments regarding this notice to Dr. Robert Tomec (rtomec@sbfm.org) or Brett Colter (bcolter@sbfm.org) or call South Bend Medical Foundation, (574) 234-4176 or (800) 544-0925.