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News

Clinical Laboratory Test Update

VerifyNow Aspirin and PRU (P2Y12) Platelet Reactivity Test Updates

To promote system-wide standardization, platelet reactivity testing will align across the system effective April 15, 2026. VerifyNow testing measures platelet-induced aggregation, with the ARU assay assessing response to aspirin and the PRU (P2Y12) assay assessing response to P2Y12 inhibitors. When the expected antiplatelet effect is present, platelet aggregation is reduced and results reflect the degree of aggregation measured.

Test Name	Lab Order Number	Units	Reference Range	CPT Code	Interpretive Comment
ARUTEST - ASPIRIN REACTION UNITS	LAB8824	Aspirin Reaction Units (ARU)	>=550 ARU	85576	**If ARU >=550**: Platelet dysfunction consistent with aspirin has not been detected. **If ARU <550**: Platelet dysfunction consistent with aspirin effect has been detected. It should be noted that drugs other than aspirin may cause platelet dysfunction detected by this assay including: Plavix, Ticlid, Effient, Aggrenox, Persantine, Pletal/cilostazol, ibuprofen, naproxen, diclofenac, indomethacin, feldene, streptokinase, tirofiban (Aggrastat), eptifibatide (Integrilin), and abciximab (ReoPro).
PRUTEST - PLATELET REACTIVITY	LAB8399	P2Y12 Reaction Units (PRU)	182-335 PRU	85576	**All results**: The test results are expressed in P2Y12 reaction units (PRU). PRU are arbitrary units derived by the test's manufacturer and indicate the extent of ADP-induced platelet clumping of fibrinogen-coated beads in the presence of PGE1. PRU results may not exactly reflect findings obtained with classic ADP-induced platelet aggregation. PRU are thought to provide a measure of platelet activation mediated by the platelet P2Y12 (or ADP) receptor. The precise significance of results above or below reference range is not known. This test may be abnormal if the patient has been treated with a Glycoprotein IIb/IIIa inhibitor within the preceding two weeks. The manufacturer has reported no interference for patients with hematocrit values between 33-52% and platelet counts between 119-502 10^9/L.

Performing Locations: Memorial Central Hospital Laboratory, Poudre Valley Hospital Laboratory, and University of Colorado Hospital Clinical Laboratory.

Specimen Requirements: Whole Blood collected in 2 (two) Greiner **2mL partial fill blue top** tubes containing 3.2% Sodium Citrate for each test required. This is the only tube type acceptable for this testing. Full-draw sodium citrate tubes cannot be tested and will require recollection.

Specimen Collection: A waste tube must be collected prior to the Sodium Citrate tubes and discarded into waste. Fill tubes to the appropriate line as indicated by the black arrow.
Specimens cannot be sent through a pneumatic tube system and must be hand-delivered to the laboratory.

Specimen Stability: 4 hours post collection

Specimens requiring recollection: Hemolyzed, clotted, too old, mishandled, under/over-filled, refrigerated, frozen, centrifuged, or samples sent through a pneumatic tube system will be recollected.

For any questions, please contact Dr. Stuart Lind at STUART.LIND@CUANSCHUTZ.EDU