Cincinnati Children's
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**Special Hemostasis & Thrombosis Laboratory**
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# ASSAY DESCRIPTION AND SAMPLE REQUIREMENTS

| TEST NAME | DESCRIPTION | COLLECTION INFORMATION |
|---|---|---|
| Aspirin Resistance | ▪ The VerifyNow Aspirin Test utilizes arachidonic acid as the agonist to measure the antiplatelet effect of aspirin. | ▪ **MUST** be collected in a Greiner BioOne Sodium Citrate Vacuette tube. Please contact lab to obtain this tube.<br>▪ Keep blood at room temperature and test must be run within 4 hours of collection.<br>▪ Samples should be collected between 2 and 30 hours after ingestion of aspirin. |
| P2Y12 Test<br>(Thienopyridines Monitor) | ▪ The P2Y12 Test uses an ADP agonist to induce platelet activation and ascertain the level of platelet reactivity impaired by thienopyridines such as clopidogrel or prasugrel or who have discontinued them prior to surgery. | ▪ **MUST** be collected in a Greiner BioOne Na Citrate Vacuette tube. Please contact lab to obtain this tube.<br>▪ Keep blood at room temperature and test must be run within 4 hours of collection. |
| Platelet Aggregation | ▪ The aggregation includes exposure to 3 concentrations of the agonists collagen and ADP, 1 concentration each of epinephrine, archidonate, TRAP and 6 concentrations of ristocetin. | ▪ **Contact lab before drawing. MUST BE SCHEDULED.**<br>▪ 35 mL Na Citrate and 3 mL EDTA collected at CCHMC as the lab must receive the blood IMMEDIATELY after collection. |
| Platelet Function Panel<br>▪ Platelet Aggregation with ATP release<br>▪ Platelet GP Quantitation (GMP 140, GpIIb, GpIb)<br>▪ Quinacrine Uptake & Release<br>▪ ATP/ADP platelet quantitation | ▪ The aggregation panel includes testing of all agonists in the Platelet Aggregation as well as the glycoprotein and quinacrine analysis by flow cytometry. | ▪ **Contact lab before drawing. MUST BE SCHEDULED.**<br>▪ 35 mL Na Citrate and 3 mL EDTA collected at CCHMC as the lab must receive the blood IMMEDIATELY after collection. |
| Platelet Aggregation,<br>Ristocetin Only | ▪ The Ristocetin only aggregation includes exposure to 6 concentrations of ristocetin. | ▪ **Contact lab before drawing. MUST BE SCHEDULED.**<br>▪ 15 mL Na Citrate and 3 mL EDTA collected at CCHMC as the lab must receive the blood IMMEDIATELY after collection. |
| Platelet Glycoprotein Quantitation (GMP 140, GpIIb, GpIb) | ▪ This flow cytometry assay looks at the expression of surface platelet glycoproteins GMP140 (CD62p), GpIIB (CD41), and GpIb (CD42b) at the resting state and after Thrombin Receptor Agonist Peptide (TRAP) activation. | ▪ **Contact lab before drawing. MUST BE SCHEDULED.**<br>▪ 5 mL Na Citrate. Must be received within 1 hour of collection. |
| Quinacrine Uptake & Release | ▪ This flow cytometry assay detects storage pool deficiency and dense granule release defects. The assay is based on the selective binding of the fluorescent dye quinacrine to adenine nucleotides in dense granules. | ▪ **Contact lab before drawing. MUST BE SCHEDULED.**<br>▪ 5 mL Na Citrate. Must be received within 1 hour of collection. |