Panels should only be utilized when all testing is deemed medically necessary. Any test may be ordered individually.

LUPUS ANTICOAGULANT (LAC) TESTING

Clinical Indications:
• Unexplained prolonged APTT
• Recurrent venous/arterial thrombosis
• Stroke/TIs
• Recurrent pregnancy loss
• Unexplained thrombocytopenia
• Migraine headaches

Screening Tests
> PT
> APTT
> APTT Mix
> dRVV (dilute Russell Viper Venom)
> TTI (Tissue Thromboplastin Inhibition)
> Thrombin Time with Reptilase time if prolonged

Confirming Tests
> Hexagonal Lipid Neutralization
> Anticardiolipin Abs (IgG, IgM and/or IgA)
> Factor VIII:C (rule out specific inhibitor)
> β2-Glycoprotein I (IgG, IgM, IgA)
> Antiphosphatidylserine Abs (IgG, IgM)
> Antiphospholipid Abs (IgG, IgM)

THROMBOTIC RISK TESTING

Clinical Indications:
• Family history of thrombosis: Arterial (A)/Venous(V)
• Thrombosis in patients < 50 yrs.
• Repeat pregnancy loss

Plasma-based Tests
(First Stage)
> Antithrombin III Activity (V)
> Protein C Activity (V)
> Protein S Activity (V)
> Activated Protein C Resistance (APCr) (A/V)

(Second Stage)
> Plasminogen (V)
> Plasminogen Activator Inhibitor (PAI-1) (A/V)

Genetic Tests
(First Stage)
> Factor V Leiden Mutation (V)
> Prothrombin Gene Variant (V)
> MTHFR Gene C677T Variant (Homocysteine) (A/V)

(Second Stage)
> Factor V Cambridge Mutation (V)
> Factor V HR2 Haplotype (V)
> MTHFR Gene A1298C Variant (Homocysteine) (A/V)
> Glycoprotein Ia C807T (A)
> PAI-1 Polymorphism 4G/5G (A)
> PL A1/A2 Polymorphism (A)
VON WILLEBRAND (VW) TESTING

Clinical Indications:
• Prolonged APTT pre-surgical screen
• Post-op bleeding
• Easy bruising
• Menorrhagia
• Post partum hemorrhage
• Post dental and surgical bleeding
• Abnormal bleeding or closure time

Tests
> APTT
> APTT Mix
> Factor VIII:C
> Ristocetin CoFactor
> vW Antigen
> vW Antigen Multimers if RCoF or vW Ag low
> Plt Agg-1.2 mg Ristocetin
> Plt Agg-0.3 mg Ristocetin
> Closure Time

PLATELET FUNCTION

Clinical Indications:
• Patients with negative VW testing and normal platelet counts

Tests
> Plt Agg-20 μM ADP
> Plt Agg-10 μM ADP
> Plt Agg- 5 μM ADP
> Plt Agg-Collagen
> Plt Agg-Arachidonic Acid
> Closure Time

DIC TESTING

Clinical Indications:
• Decreased platelet count in patients with sepsis, recent surgery, malignancy and ob/gyn complications.

Tests
> PT
> PT Mix
> APTT
> APTT Mix
> Fibrinogen
> Antithrombin III Activity
> Fibrin(ogen) Degradation Products (FDP)
> D-Dimer

THERAPEUTIC MONITORING
• Chromogenic Factor X Assay (Coumadin monitoring with LAC)
• Heparin Level (Anti-Xa)(Fondaparinux, LMWH, Std Hep with LAC)

HEPARIN PLATELET ANTIBODIES
• Heparin Plt Ab - Aggregation
• Heparin PF4 Platelet Ab

Contact the coagulation laboratory for appropriate testing when further details are needed.

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