

## Coagulation

### Hemostasis Disorders (Bleeding and Hypercoagulability)

Alpha 2-Antiplasmin  
 Factor Inhibitor Screen  
 Factor II Activity, Clotting  
 Factor V Activity, Clotting  
 Factor V Human Inhibitor  
 Factor VII Activity, Clotting  
 Factor VIII Activity, Clotting  
 Factor VIII Human Inhibitor with Reflex to Nijmegen Assay  
 Factor VIII Porcine Inhibitor  
 Factor IX Activity, Clotting  
 Factor IX Human Inhibitor  
 Factor X Activity, Clotting  
 Factor X Antigen, EIA<sup>1</sup>  
 Factor XI Activity, Clotting  
 Factor XI Human Inhibitor  
 Factor XI Mutation Analysis (Ashkenazi Jewish)<sup>2</sup>  
 Factor XII Activity, Clotting  
 Factor XIII, Functional  
 Fibrinogen, Quantitative, Nephelometry  
 Heparin Absorption in Plasma  
 High Molecular Weight Kininogen  
 Plasminogen Activator Inhibitor (PAI-1) Activity  
 Plasminogen Activator Inhibitor-1  
 Prekallikrein (Fletcher Factor) Activity  
 Prothrombin Fragment 1.2  
 Reptilase Clotting Time  
 Stypven Clotting Time  
 Thrombin Clotting Time  
 Thrombin Clotting Time with Reflex to Mixing Study

### Heparin-Induced Thrombocytopenia (HIT)

Heparin-Induced Platelet Antibody  
 Heparin-Induced Thrombocytopenia Panel  
*Includes heparin-induced platelet antibody and SRA.*  
 Serotonin Release Assay (SRA)

### Intravascular Coagulation (Local and Disseminated)

Alpha 2-Antiplasmin  
 Antithrombin III Activity  
 Antithrombin III Antigen  
 Antithrombin III Activity with Reflex to Antithrombin III Antigen  
 Antithrombin III Activity and Antigen  
 D-Dimer  
 Euglobulin Clot Lysis Time  
 Fibrin Monomer  
 Fibrinogen Degradation Products (FDP)  
 Fibrinogen, Quantitative, Nephelometry  
 Heparin Cofactor II<sup>2</sup>  
 Plasminogen, Antigenic  
 Plasminogen, Functional  
 Thrombin-Antithrombin (TAT) Complex

### Phospholipid Antibody Syndrome

Annexin V Antibodies (IgG, IgM)<sup>2</sup>  
 Cardiolipin Antibody (IgA)  
 Cardiolipin Antibody (IgG)  
 Cardiolipin Antibody (IgM)  
 Cardiolipin Antibody Screen w/ Reflex to IgG and IgM  
 Cardiolipin Antibody Screen w/ Reflex to IgG, IgA, IgM  
 Dilute Russell Viper Venom Time (dRVVT)  
 Dilute Russell Viper Venom Time (dRVVT) with Reflex to Confirmation  
 β<sub>2</sub>-Glycoprotein I Antibody (IgA)  
 β<sub>2</sub>-Glycoprotein I Antibody (IgG)  
 β<sub>2</sub>-Glycoprotein I Antibody (IgM)  
 β<sub>2</sub>-Glycoprotein I Antibodies (IgA, IgG, IgM)  
 Kaolin Clotting Time  
 Lupus Anticoagulant dRVVT, Confirmation  
 Lupus Anticoagulant Evaluation  
 Lupus Anticoagulant: dRVVT Confirm/Hexagonal Phospholipid  
 Lupus Anticoagulant-Hexagonal Phospholipid Neutralization  
 Phosphatidylserine Antibodies (IgA)  
 Phosphatidylserine Antibodies (IgG, IgM)  
 Phosphatidylserine Antibodies (IgA, IgG, IgM)  
 Platelet Neutralization Procedure  
 Prothrombin Antibodies (IgG, IgM)  
 PTT-LA

### Platelet Immune Disorders

Platelet Antibody, Direct, Flow Cytometry<sup>2</sup>  
 Platelet Antibody, Indirect (IgG)  
 Platelet Glycoprotein Antibody

### Screen for Coagulation Disorders

Activated Partial Thromboplastin Time  
 Mixing Studies  
 Mixing/Correction Study  
 Prothrombin Time

### Therapeutic Monitoring

Activated Partial Thromboplastin Time  
 Cytochrome P450 2C9 Genotype<sup>2</sup>  
 D-Dimer  
 Ecarin Clotting Time  
 Fibrinogen Degradation Products (FDP)  
 Heparin, Low Molecular Weight (Xa Inhibition)  
 Heparin, Unfractionated (Xa Inhibition)  
 Plasminogen, Antigenic  
 Prothrombin Time  
 Tissue Plasminogen Activator (TPA), EIA

### Thrombophilic Disorders

Activated Protein C-Resistance  
 Antithrombin III Activity  
 Antithrombin III Antigen  
 Antithrombin III Activity with Reflex to Antithrombin III Antigen  
 Antithrombin III Activity and Antigen  
 C<sub>4</sub> Binding Protein<sup>2</sup>  
 Cardiolipin Antibody (IgA)

Cardiolipin Antibody (IgG)  
 Cardiolipin Antibody (IgM)  
 Cardiolipin Antibody Screen w/ Reflex to IgG and IgM  
 Cardiolipin Antibody Screen w/ Reflex to IgG, IgA, IgM  
 Cytochrome P450 2C9 Genotype<sup>2</sup>  
 D-Dimer  
 Factor V (Leiden) Mutation Analysis<sup>2</sup>  
 Factor V HR2 Allele DNA Mutation Analysis<sup>2</sup>  
 Factor V (Leiden) Mutation Analysis w/Reflex to HR2 Mutation Analysis<sup>2</sup>  
 Fibrin Monomer  
 Fibrinogen  
 Fibrinogen Degradation Products (FDP)  
 $\beta$ 2-Glycoprotein I Antibody (IgA)  
 $\beta$ 2-Glycoprotein I Antibody (IgG)  
 $\beta$ 2-Glycoprotein I Antibody (IgM)  
 $\beta$ 2-Glycoprotein I Antibodies (IgA, IgG, IgM)  
 Heparin Cofactor II<sup>2</sup>  
 Heparin, Low Molecular Weight (Xa Inhibition)  
 Heparin, Unfractionated (Xa Inhibition)  
 High Molecular Weight Kininogen  
 Homocysteine (Cardiovascular), Serum, FPIA  
 Human Platelet Antigen 1 Genotype  
 Lipoprotein (a)  
 Methylenetetrahydrofolate Reductase (MTHFR), DNA Mutation Analysis<sup>2</sup>  
 Phosphatidylserine Antibodies (IgA)  
 Phosphatidylserine Antibodies (IgG, IgM)  
 Phosphatidylserine Antibodies (IgA, IgG, IgM)  
 Plasminogen Activator Inhibitor (PAI-1) Activity  
 Plasminogen Activator Inhibitor-1  
 Platelet Factor 4  
 Prekallikrein (Fletcher Factor) Activity  
 Protein C Activity  
 Protein C Antigen  
 Protein C Activity with Reflex to Protein C Antigen  
 Protein C Activity and Antigen  
 Protein C and S Activity with Reflex to Protein C and/or S Antigen  
 Protein S Activity  
 Protein S, Free  
 Protein S, Total Antigen  
 Protein S Activity with Reflex to Protein S Antigen  
 Protein S Antigen and Protein S, Free  
 Protein S Panel  
*Includes protein S activity, free and total protein S, and C<sub>4</sub> binding protein.*  
 Prothrombin (Factor II) 20210G→A Mutation Analysis<sup>2</sup>  
 Prothrombin Fragment 1.2  
 Red Cell CD55 and CD59 Expression<sup>1</sup>  
 Reptilase Clotting Time  
 Soluble P-selectin, ELISA<sup>1</sup>  
 Thrombin Clotting Time  
 Thrombin Clotting Time with Reflex to Mixing Study  
 Thrombin-Antithrombin (TAT) Complex  
 Thrombophilia DNA Mutation Analysis<sup>2</sup>  
*Includes factor V (Leiden) and prothrombin (factor II) 20210G→A mutation analyses.*  
 Thrombophilia Mutation Analysis with Reflex to HR2 Mutation Analysis<sup>2</sup>  
*Includes factor V (Leiden) and prothrombin (factor II) 20210G→A mutation analyses with reflex to HR2 mutation analysis.*  
 Thrombophilia Screen, Inherited<sup>2</sup>  
*Includes antithrombin III activity, factor V (Leiden) mutation with reflex to factor V HR2 mutation, protein C activity, free protein S, and prothrombin (factor II) 20210G→A mutation.*  
 Tissue Factor<sup>2</sup>  
 Tissue Plasminogen Activator (TPA), EIA

## von Willebrand's Disease

Alpha 2-Antiplasmin  
 Factor VIII Activity, Clotting  
 Ristocetin Cofactor  
 von Willebrand Antigen, Multimeric Analysis  
 von Willebrand Comprehensive Panel  
*Includes aPTT, factor VIII clotting activity, ristocetin cofactor, vWF antigen, vWF collagen binding assay (CBA), ratio of CBA to vWF antigen, and multimeric analysis.*  
 von Willebrand Factor Activity  
 von Willebrand Factor Antigen  
 von Willebrand Factor Collagen Binding Assay  
 von Willebrand Factor Protease Activity with Reflex to Protease Inhibitor<sup>2</sup>

## Panels

**Antiphospholipid Antibody Panel**  
*Includes  $\beta$ 2-glycoprotein I antibodies (IgA, IgG, IgM), phosphatidylserine antibodies (IgA, IgG, IgM), and cardiolipin antibodies (IgA, IgG, IgM).*  
**Cardiovascular Risk Panel**  
*Includes Cardio CRP (C-reactive protein), factor VII clotting activity, fibrinogen clotting activity, homocysteine, human platelet antigen I genotype, lipoprotein (a), PAI-1 activity, soluble P-selectin, and vWF antigen.*  
**Contact Factor Panel**  
*Includes factor XI and XII clotting activities, high molecular weight kininogen, and prekallikrein (Fletcher factor).*  
**Extrinsic Pathway Panel**  
*Includes factors II, V, VII, and X clotting activities and Stypven clotting time.*  
**Fibrinogen Comprehensive Panel**  
*Includes fibrinogen clotting activity and quantitation, reptilase clotting time, and thrombin clotting time with reflex to a mixing study.*  
**Fibrinolysis Comprehensive Panel**  
*Includes  $\alpha$ 2-antiplasmin, D-dimer, euglobulin clot lysis time, fibrin monomer, fibrinogen degradation products, PAI-1 activity, functional plasminogen levels, and TPA.*  
**Heparin-Induced Thrombocytopenia Panel**  
*Includes heparin-induced platelet antibody and SRA.*  
**Intrinsic Pathway Panel**  
*Includes factor VIII, IX, XI, and XII clotting activities.*  
**Lupus Anticoagulant & Antiphospholipid Antibody Confirmatory Panel**  
*Includes cardiolipin antibodies (IgG, IgM), kaolin clotting time, lupus anticoagulant dRVVT confirmation, lupus anticoagulant-hexagonal phospholipid neutralization, mixing/correction study, prothrombin time, and thrombin clotting time.*  
**Menorrhagia Panel**  
*Includes aPTT, factor VIII and XI clotting activities, functional factor XIII, prothrombin time, ristocetin cofactor, and vWF antigen.*  
**Oral Contraceptive/Hormone Replacement Therapy Coagulation Panel<sup>2</sup>**  
*Includes activated protein C resistance, antithrombin III activity, C<sub>4</sub> binding protein, factor V (Leiden) mutation, factor VIII clotting activity, protein C activity, free protein S, and prothrombin (factor II) 20210G→A mutation.*  
**Phospholipid Syndrome/Lupus Anticoagulant Comprehensive Panel**  
*Includes prothrombin antibodies (IgG, IgM),  $\beta$ 2-glycoprotein I antibodies (IgA, IgG, IgM), cardiolipin antibodies (IgA, IgG, IgM), phosphatidylserine antibodies (IgG, IgM), lupus anticoagulant dRVVT confirmation, lupus anticoagulant-hexagonal phospholipid neutralization, prothrombin time reflexed to a mixing/correction study, and activated partial thromboplastin time reflexed to a mixing/correction study.*  
**Protein S Panel**  
*Includes protein S activity, free and total protein S, and C<sub>4</sub> binding protein.*

#### Recurrent Miscarriage Evaluation/Coagulation Panel<sup>2</sup>

*Includes aPTT, annexin V antibodies (IgG, IgM), antithrombin III activity,  $\beta$ 2-glycoprotein I antibodies (IgA, IgG, IgM), cardiolipin antibodies (IgA, IgG, IgM), factor V (Leiden) and prothrombin (factor II) 20210G→A mutations, homocysteine, lupus anticoagulant dRVVT confirmation, lupus anticoagulant hexagonal phospholipid neutralization, mixing studies, phosphatidylserine antibodies (IgG, IgM), protein C activity, free protein S, and prothrombin antibodies (IgG, IgM).*

#### Thrombophilia Comprehensive Panel<sup>2</sup>

*Includes antithrombin III activity; cardiolipin antibody screen with reflex to IgA, IgG, and IgM; factor V (Leiden) mutation with reflex to factor V HR2 mutation; homocysteine; lupus anticoagulant-hexagonal phospholipid neutralization; lupus anticoagulant dRVVT confirmation; MTHFR mutation; protein C activity; free protein S; and prothrombin (factor II) 20210G→A mutation.*

#### Thrombotic Marker Panel

*Includes D-dimer, fibrin monomer, prothrombin fragment 1.2, and thrombin-antithrombin complex.*

#### tPA/PAI-1 Panel

*Includes PAI-1, PAI-1 activity, and tissue plasminogen activator.*

#### Venous Thrombosis Hypercoagulability Panel<sup>2</sup>

*Includes activated protein C resistance, antithrombin III activity, cardiolipin antibodies (IgG, IgM), factor V (Leiden) mutation with reflex to factor V HR2 mutation, homocysteine, lupus anticoagulant dRVVT confirmation, lupus anticoagulant-hexagonal phospholipid neutralization, protein C activity with reflex to protein C antigen, and free protein S.*

#### Venous Thrombosis Hypercoagulability Panel for Patient on Coumadin<sup>2</sup>

*Includes activated protein C resistance, antithrombin III activity, cardiolipin antibodies (IgA, IgG, IgM), factor V (Leiden) mutation with reflex to factor V HR2 mutation, homocysteine, lupus anticoagulant dRVVT confirmation, lupus anticoagulant-hexagonal phospholipid neutralization, protein C antigen, total protein S antigen, and PTT-LA.*

#### Venous Thrombosis Secondary Panel<sup>2</sup>

*Includes factor VIII, IX, and XI clotting activities, factor V HR2 mutation, fibrinogen clotting activity, fibrinogen quantitation, lipoprotein (a), and functional plasminogen.*

#### von Willebrand Comprehensive Panel

*Includes aPTT, factor VIII clotting activity, ristocetin cofactor, vWF antigen, vWF collagen binding assay (CBA), ratio of CBA to vWF antigen, and multimeric analysis.*

<sup>1</sup>This test is performed using a kit that has not been approved or cleared by the FDA. The analytical performance characteristics of this test have been determined by Quest Diagnostics Nichols Institute. This test should not be used for diagnosis without confirmation by other medically established means.

<sup>2</sup>This test was developed and its performance characteristics determined by Quest Diagnostics Nichols Institute. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. Performance characteristics refer to the analytical performance of the test. Reflex tests are performed at an additional charge.



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