

Patient Name: \_\_\_\_\_ M  F  Date of Birth: \_\_\_\_\_ Physician: \_\_\_\_\_

Draw Date @ Time: \_\_\_\_\_ Hospital: \_\_\_\_\_ PT ID / MRN#: \_\_\_\_\_

PT Location: \_\_\_\_\_ Diagnosis: \_\_\_\_\_ Lab ID: \_\_\_\_\_ Medications: Aspirin- NSAID- Heparin-  
 Coumadin- Clopidogrel-

X R*	Test	Normal Range	CPT
<b>THROMBOPHILIA - INHERITED</b>			
	Antithrombin III Activity [AT3]	83-122%	85300
	Antithrombin III Antigen [AT3I]	218-310 mg/L	85301
	Protein C Activity [PC]	77-158%	85303
	Protein C Antigen [PCAg]	65-140%	85302
	Protein S Activity [PS]	57-130%	85306
	Protein S Antigen (Free)	67-111%	85306
	Protein S Antigen (Total)	57-103%	85305
	Activated Protein C Resistance [APC]	>0.7 normalized ratio	85307

Genetic Panel			
ALL	<input type="checkbox"/> PTGene POORT G20210A		81241
	<input type="checkbox"/> MTHFR C677T		81291
	<input type="checkbox"/> FV-Leiden 506Q		81240
	HR2-FV Gene Mutation	Negative	81400
	MTHFR A1298C (Methylenetetrahydrofolate Reductase)	Negative	81291
	Factor XII (12)	50-150%	85280

THROMBOPHILIA - ACQUIRED			
	Lupus -Like Anticoagulant [LLA] with Platelet Neutralization Confirmation	<1.2 Normal 1.2-1.3 Borderline >1.3 Abnormal	85705, 85613, (85597)
	<input type="radio"/> TTI <input type="radio"/> dRVVT <input type="radio"/> Both		
	Lupus -Like Anticoagulant [LLA] with Heparin Neutralization	<1.2 Normal 1.2-1.3 Borderline >1.3 Abnormal	85705, 85613, (85525)
	<input type="radio"/> TTI <input type="radio"/> dRVVT <input type="radio"/> Both		
	Anti-Prothrombin Antibody (IgG, IgM)	IgG <20G IgM <20M	86849x2
	Anticardiolipin Antibody (IgG, IgM, IgA)	< 10 units (each)	86147x3
	Factor VIII(8) Activity	50-150%	85240
	Anti-Beta2 Glycoprotein I (IgG, IgM)	IgG 0-20 SGU IgM 0-20 SMU	86146x2
	Circulating Anticoagulant Mixing Studies	Negative	85732 (APTT) 85611 (PT)
	<input type="radio"/> APTT <input type="radio"/> PT <input type="radio"/> Both		
	Homocysteine	< 10 uM/L	83090

von WILLEBRAND ANALYSIS			
	Factor VIII(8) Activity	50-150%	85240
	vWF Activity (Ristocetin Cofactor) [RiCo]	Abnormal < 40%	85245
	vWF: Ag (Factor VIII Related Antigen) [RAg]	50-150%	85246
	vWF Multimer Analysis [Mult]	Normal	85247
	ADAMTS-13 Activity	Normal	85397
	vWF Cleaving Protease Activity for TTP		
	ADAMTS-13 Inhibitor	Normal < 0.4	85335
	vWF Cleaving Protease Inhibitor	Inhibitor units	
	ADAMTS-13 Antibody Inhibitor	Normal < 18 Arbitrary units	83520

PLATELET FUNCTION			
	Platelet Aggregation	Normal	85576x6
	<i>ADP - 20mM, Collagen, Epinephrine, Arachidonic Acid, Ristocetin, Low Dose Ristocetin, and reflex of Thrombin, ADP - 5mM</i>		
	PAI (Platelet Adhesive Index)	66-100%	85999
	Antiplatelet Antibody (indirect)	Negative	86022
	Antiplatelet Antibody (direct)	Negative	86022, 86023
	Antiplatelet Antibody (drug-induced)	Negative	86022
	1st drug:	additional drug:	

Comments: \_\_\_\_\_

X R*	Test	Normal Range	CPT
<b>THROMBOSIS</b>			
	Thrombelastograph Recal -TEG	-2.0 to +0.5	85175
	Thrombin-Anti-Thrombin Complex [TAT]	1.0-4.1 ug/ml	83520
	Prothrombin Fragment [F1+2]	0.4-1.1 nM/L	83520
	Plasminogen Activator Inhibitor [PAI-I]	Male 0.0-23.8 IU/ml Female 0.0-22.6 IU/ml	85415

FACTOR DEFICIENCIES			
<b>PT Factors</b>			
	Factor II (2) (Vitamin K Deficiency)	50-150%	85210
	Factor V (5)	50-150%	85220
	Factor VII (7) (Vitamin K Deficiency)	50-150%	85230
	Factor X (10) (Vitamin K deficiency)	50-150%	85260

APTT Factors			
	Factor VIII (8)	50-150%	85240
	Factor IX (9) (Vitamin K Deficiency)	50-150%	85250
	Factor XI (11)	50-150%	85270
	Factor XII (12)	50-150%	85280
	Bethesda Inhibitor Titers (FVIII or IX -Human or Porcine)	<0.5 Bethesda Units	85335

DELAYED BLEEDING			
	Factor XIII(13) QUALITATIVE	Normal	85291

HEPARIN and HEPARIN ANTIBODIES			
	Heparin / PF4 / Platelet Antibody(HIT)-ELISA IgG	Negative	86022
	Heparin Induced - Platelet Aggregation [HIPA]	Negative	85576
	Anti Xa <input type="radio"/> Lovenox <input type="radio"/> Fragmin <input type="radio"/> Rivaroxaban <input type="radio"/> UFH/HMW <input type="radio"/> Arixtra <input type="radio"/> Apixaban		85520

DIC and FIBRINOLYSIS			
	Thrombin Time [TT]	< 3 sec. above control	85670
	Reptilase Time [RT]	< 3 sec. above control	85635
	Ecarin Clot Time [ECT] for DTI or Dabigatran		80299
	Plasminogen Activity [PLC]	80-120%	85420
	Plasminogen Antigen [PLI]	10-20 mg/dl	85421
	Alpha -2 Antiplasmin Activity	80-120%	85410
	Euglobulin Lysis Time [ELT]	> 2 hours	85360
	Fibrinogen (Clottable Activity) [Fib]	200-400 mg/dl	85384
	Fibrinogen (Immunologic) [FibI]	201-454 mg/dl	85385

GENERAL			
	Prothrombin Time [PT]	9.6-12.2 sec.	85610
	Activated Partial Thromboplastin Time [APTT]	29.9-41.3 sec.	85730

- | SCREENING PROFILES   |  |  |  |
|--|--|--|--|
| <input type="checkbox"/> WARFARIN SENSITIVITY DNA (CYP2C9 & VKORC1 genotypes)  |  |  |  |
| <input type="checkbox"/> PLAVIX (CLOPIDOGREL) LOF ANALYSIS (GENOTYPING for CYP2C19 (e.g. *2,*3 or *17))  |  |  |  |
| <input type="checkbox"/> THROMBOTIC RISK / HYPERCOAGULABLE PT, APTT, Factor VIII, PC, PS, AT3, LLA-TTI, DRVVT Gene Mutation Panel FV-Leiden, PT-Gene and MTHFR 677 |  |  |  |
| <input type="checkbox"/> PLATELET FUNCTION PLAVIX [ADP/COLL/RISTO/LDR/EPI/ARACH]   |  |  |  |
| <input type="checkbox"/> vonWILLEBRAND PROFILE [FVIII/RiCo/RAg]  |  |  |  |
| <input type="checkbox"/> ANTI-PHOSPHOLIPID ANTIBODY [LLA-TTI&dRVVT/CA/ANTI-β2 GYLCOPROTEIN/ANTIPTROTHROMBIN ANTIBODY]  |  |  |  |
| <input type="checkbox"/> PROLONGED PT AND/OR APTT [CA/LLA/PT/APTT]   |  |  |  |
| <input type="checkbox"/> aHUS COMPLEMENT PROFILE: C3, C4, FACTOR B, I, H, H AUTOANTIBODY, CD46 SEE PAGE #2 FOR SPECIFICATIONS                                      |  |  |  |

\*r reflex testing to be performed only when associated test is abnormal.  
 e.g.  - Abn [PC] Activity  - PCAg | e.g.  - HIT (Abn)  HIPA

## Section I: SAMPLE REQUIREMENTS

Phlebotomy for coagulation specimens should involve minimum tourniquet time, a good stick with adequate flow and a 2ml. discard before collection. Specimens from an indwelling catheter should be flushed, have good flow, and a 10ml. discard (or used for other tests) before drawing. Most specimens should be collected in buffered .109M Citrate tubes (e.g. blue top vacutainer), except those requiring special handling. (listed in Section II).

Once drawn the specimen may be sent as whole blood on melting ice or preferably sent as plasma centrifuged immediately. (1600xG for 20 minutes) after phlebotomy. The plasma is transferred to a plastic tube and refrigerated. 3cc of plasma specimen is sufficient for most tests or combination of tests. However, please call us to confirm the requirements when smaller samples are needed.

Please label the sample tube(s) with the proper patient identification. The samples should be placed in a plastic bag and sealed. Place the first bag in a second bag containing melting ice. The sample packaged as such should be placed in a styrofoam container along with the requisition (s). **DO NOT use staple on requisitions (these are a hazard to gloved hands).**

**CAUTION:** For Lupus Anticoagulant, Circulating Anticoagulants or Anti-Xa tests:

If samples are to be held up for shipping, most plasma can be frozen, except for the Lupus-Like Anticoagulant (LLA) or Circulating Anticoagulants or AntiXa. To freeze these, the plasma sample should be either filtered (0.22µ filter) and then frozen, or alternately spun at high G's (10000xG) for ten minutes and remove the top two thirds of the plasma only and freeze. Samples should be sent to us frozen on ice.

## SECTION II: TESTS REQUIRING SPECIAL HANDLING

TEST	MINIMUM SAMPLE	HANDLING
Platelet Aggregation OR Thrombolastograph	10 ml citrated whole blood	Draw 9ml of whole blood (using the 2 syringe technique). Place blood into 1ml thawed buffered sodium citrate; mix gently; <b>Maintain at room temperature. Sample must arrive within 4 hours. Prescheduling and fasting samples preferred.</b>
Platelet Adhesive Index [PAI]	10 ml Heparinized whole blood	Draw 9ml. of whole blood directly into a 20ml syringe containing 1ml 40U/ml Heparin. Cap syringe. <b>Maintain and ship at room temperature.</b>
<b>Gene Mutations Testing:</b> Factor V Leiden / Prothrombin "POORT" / MTHFR and Warfarin Sensitivity DNA Profile	Purple top vacutainer whole blood for any or all tests (unopened)	<b>Maintain and ship at room temperature or refrigerated! (Avoid Freezing) Refrigeration Preferred.</b>
Homocysteine	Minimum 1ml serum (ea.)	<b>Shipped frozen!</b>
MOST ANTIBODY TESTS <u>Except</u> Anti-Platelet Antibody (direct) and Anti-Prothrombin Antibody	Minimum 0.5ml serum (ea.)	<b>Shipped frozen!</b>
Anti-Platelet Antibody direct	40 ml EDTA or ACD Whole Blood	Shipped immediately at room temperature (Mon/Tues/Wed/Thur ONLY)
Lupus Anticoagulant, Circulating Anticoagulants or Anti-Xa	Minimum 1ml plasma (not hemolyzed)	Platelet free plasma obtained by centrifuging plasma a second time after removal of RBC's as indicated above.
aHUS Complement Profile	Tests in this profile maybe ordered separately.	(A) CD46 is 3ml K <sub>2</sub> EDTA (Lavender top) Ship M-Th must be received either 8 hours of draw or called in advance. (B) Compliment sample 2ml Serum & No serum separator - Frozen

## SECTION III: REQUISITIONS and PATIENT INFORMATION

As required by law, we must have a requisition for all the tests performed at our laboratory. This form may be used to request tests from Coagulation Consultants.

The patient information found on the top front of this form requires completion- especially patient's date of birth (NOT AGE), patient ID#, hospital, and medication which may be important to Coagulation (e.g.: heparin, coumadin, aspirin, etc.) Diagnosis is optional.

Patient results can be obtained from our website "[WWW.COAGULATIONCONSULTANTS.COM](http://WWW.COAGULATIONCONSULTANTS.COM)" after entry of user name and password. Each patient's results are entered each day as they are completed, so that partial or completed results can be obtained without calling the laboratory and they can be printed and reported to the physician immediately at any time of day or night.