

COAGULATION LABORATORY

ANTICOAGULANT EFFECTS ON COAGULATION ASSAYS

ASSAY	UNFRACTIONATED HEPARIN	LOW MOLECULAR WEIGHT HEPARIN AND FONDAPARINUX	VITAMIN K ANTAGONISTS (I.E. WARFARIN)	DIRECT FACTOR Xa INHIBITORS (I.E. XARELTO, ELIQUIS, EDOXABAN, SAVEYSA)	DIRECT THROMBIN INHIBITORS (I.E. PRADAXA, ARGATROBAN, BIVALIRUDIN)
PT/INR	no interference up to 1.0 IU/mL	little or no effect	prolonged	variable	prolonged
aPTT	prolonged	little or no effect	prolonged	variable	prolonged
Fibrinogen, Clauss	no interference up to 2.0 IU/mL	no effect	no effect	no effect	no effect
Thrombin Time	prolonged	prolonged	no effect	no effect	prolonged
Antithrombin Activity, FXa based	no interference up to 4.0 IU/mL	no effect	no effect	falsely high	no effect
aPTT-based Factor Assays (Factors 8, 9, 11)	may be falsely low	may be low when supratherapeutic	decreased Factor 9	may be falsely low	may be falsely low
PT-based Factor Assays (Factors 2, 5, 7, 10)	no effect	no effect	decreased Factors 2, 7, 10	may be falsely low	may be falsely low
Protein C Activity, Chromogenic	no effect	no effect	decreased	no effect	no effect
Free Protein S Antigen	no effect	no effect	decreased	no effect	no effect
LA tests (including DRVVT and LA PTT)	unaffected by HepXa levels < 1.00 IU/ml	unaffected by HepXa levels < 1.00 IU/ml	Best when INR <1.50	False positive results – testing will not be performed	False positive results – testing will not be performed
Beta-2-Glycoprotein-1 Antibodies	no effect	no effect	no effect	no effect	no effect
Cardiolipin Antibodies	no effect	no effect	no effect	no effect	no effect
Factor 5 Leiden Gene Mutation	no effect	no effect	no effect	no effect	no effect
Factor 2 Prothrombin Gene Mutation	no effect	no effect	no effect	no effect	no effect