

Impact of Common Anticoagulants on Coagulation Tests

The impact of anticoagulants on coagulation tests depends on the anticoagulant's mechanism of action, drug concentration, and coagulation test assay methodology, including specific reagents utilized.

At **therapeutic** doses, the following anticoagulants impact coagulation tests utilized within the MCU clinical laboratory as listed below:

Test	Warfarin	Unfractionated Heparin (UFH)	Low Molecular Weight Heparin (LMWH)	Dabigatran and Argatroban	Apixaban	Rivaroxaban
PT/INR (PROTHROMBIN TIME/INR) VENOUS [LAB320]	↑	--	--	↑	--	↑
PTT (PARTIAL THROMBOPLASTIN TIME) [LAB1117] PARTIAL THROMBOPLASTIN TIME FOR IV ANTICOAGULATION [LAB8879]	--	↑	--	↑	--	↑
THROMBIN TIME [LAB324]	--	↑	--	↑	--	--
FIBRINOGEN [LAB314]	--	--	--	--	--	--
HEPARIN ASSAY (UNFRACTIONATED HEPARIN ANTI XA) [LAB317]	--	↑	↑	--	↑	↑

ENOXAPARIN ASSAY (ANTI XA) [LAB316]						
APIXABAN ASSAY (ANTI XA) [LAB8857]						
RIVAROXABAN ASSAY (ANTI XA) [LAB8858]						
D-DIMER [LAB602]	--	--	--	--	--	--
ANTITHROMBIN III ASSAY [LAB1009]	--	--	--	--	↑	↑
PROTEIN S ANTIGEN, FREE [LAB8982]	↓	--	--	--	--	--
PROTEIN C, FUNCTIONAL [LAB1133]	↓	--	--	--	--	--
LUPUS ANTICOAGULANT CONSULTATION [LAB478]	--	--	--	Possible false positive	Possible false positive or false negative	Possible false positive
FACTOR II ASSAY [LAB303]	↓					
FACTOR V ASSAY [LAB304]	--					
FACTOR VII ASSAY [LAB305]	↓	--	--	↓	--	↓
FACTOR X ASSAY [LAB1052]	↓					
FACTOR VIII ASSAY [LAB306]	--	↓	--	↓	--	↓

FACTOR IX ASSAY [LAB308]	↓					
FACTOR VIII INHIBITOR [LAB1050]	--					
FACTOR IX INHIBITOR [LAB1041]	↑	↑	--	↑	--	↑
CHROMOGENIC FACTOR X [LAB1020]	↓	--	--	--	↓	↓
CHROMOGENIC FACTOR VIII ASSAY [LAB8465]	--	--	--	↓	↓	↓
CHROMOGENIC FACTOR VIII INHIBITOR [LAB9508]	--	--	--	↑	↑	↑
VON WILLEBRAND ANTIGEN [LAB1167]	--	--	--	--	--	--
VON WILLEBRAND FACTOR ACTIVITY (GPIBM) [LAB9329]	--	--	--	--	--	--

↑ Increases result

-- No effect

↓ Decreases result

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