

# Common Risk Assessment Models for VTE Prophylaxis in Hospitalized Medical Patients

Caprini RAM		Padua RAM		IMPROVE-4 RAM		IMPROVE-7 RAM		IMPROVE-Bleed RAM	
Highest Risk > 5 Moderate Risk 2 Low Risk 0-1		High Risk ≥ 4 Low Risk 0-3		High Risk ≥ 2 Low Risk 0-1		High Risk > 2 Low Risk 0-1		High Risk ≥ 7 Low Risk <7	
RISK FACTOR	SCORE	RISK FACTOR	SCORE	RISK FACTOR	SCORE	RISK FACTOR	SCORE	RISK FACTOR	SCORE
Elective Major Lower Extremity Arthroplasty	5	History of VTE	3	History of VTE	3	History of VTE	3	Active Gastric or Duodenal Ulcer	4.5
Hip/Pelvis/Leg Fracture	5	Active Cancer	3	Thrombophilia	3	Active Cancer	2	Recent Bleeding (<3mo)	4
Stroke (<1 month)	5	Hypercoagulable State	3	Age >60yo	1	Current Lower Limb Paralysis	2	Trombocytopenia (<50 x 10 <sup>9</sup> )	4
Trauma (<1 month)	5	Reduced Mobility	3	History of Cancer	1	Thrombophilia	2	Age >85yo	3.5
Spinal Cord Injury (<1 month)	5	Major Surgery or Trauma (≤1 month)	2			Age >60yo	1	Hepatic Failure (INR >1.5)	2.5
Age >75yo	3	Age >70yo	1			ICU/CCU	1	Renal Failure (GFR <30)	2.5
History of VTE	3	BMI ≥30	1			Immobilization ≥ 7 days	1	ICU/CCU	2.5
Family History of Thrombosis	3	Acute Heart/Respiratory Failure	1					Central Venous Access	2
Factor V Leiden	3	Acute Myocardial Infarction	1					Acute Rheumatic Disease	2
Prothrombin 20210A	3	Acute Infection/Rheumatologic Disease	1					Current Cancer	2
Elevated Homocysteine	3	Hormone Therapy	1					Age 40-85	1.5
Lupus Anticoagulant	3							Male	1
Elevated Cardiolipin Antibody	3							Renal Failure (GFR 30-60)	1
Heparin-Induced Thrombocytopenia	3								
Congenital/Acquired Thrombophilia	3								
Age 64-75	2								
Arthroscopic Surgery	2								
Cancer	2								
Major Surgery (>45min)	2								
Laparoscopic Surgery (>45min)	2								
Immobilization (>72hrs)	2								
Plaster Cast	2								
Immobilization (>1mo)	2								
Central Venous Access	2								
Age 41-60yo	1								
Minor Surgery	1								
History of Prior Major Surgery (<1mo)	1								
Varicose Veins	1								
Inflammatory Bowel Disease	1								
Leg Swelling	1								
BMI >25	1								
Acute Myocardial Infarction	1								
Heart Failure Exacerbation (<1mo)	1								
Sepsis (<1mo)	1								
Acute Respiratory Disease (<1mo)	1								
Abnormal Pulmonary Function	1								
Active Bed Rest	1								
Ongoing Hormone Therapy	1								
Pregnant or Post-Partum (<1mo)	1								
Unexplained Stillborn or Recurrent Spontaneous Abortions	1								

