

Appendix D. Caprini Risk Assessment Model – Adult – Inpatient – Venous Thromboembolism (VTE) Prophylaxis – CPG

Risk factors for venous thromboembolism (VTE) in the surgical patient

1 Point	2 Points	3 Points	5 Points
Age 41-60 years	Age 61-74 years	Age ≥ 75	Acute spinal cord injury (< 1 month)
Acute MI (<1 month)	Central venous access	Established thrombophilia*	Elective lower extremity arthroplasty
BMI > 25	Immobile ≥ 72 hours	HIT	Hip, pelvis, or leg fracture (< 1 month)
CHF exacerbation (<1 month)	Leg plaster cast or brace	Hx of VTE	Stroke (< 1 month)
Hx of inflammatory bowel disease	Malignancy	Family hx VTE (1 degree relative)	
Procedure with local anesthesia	Surgery- arthroscopic		
Swollen legs/ Varicose veins (current)	Surgery > 45 mins		
Sepsis (< 1 month)			
Serious lung dx ex. <i>Pneumonia</i> (<1 month)			
1 point (For Women Only)			
Oral contraceptives or HRT			
Pregnancy or postpartum (< 1 month)			
Hx of unexplained stillborn infant, spontaneous abortion (≥3), premature birth with toxemia or growth restricted infant			

VTE prophylaxis recommendations based on risk score

Points	Risk	Recommendation
0	Very Low VTE Risk	Early and frequent ambulation
1-2	Low VTE Risk	SCD
3-4	Moderate VTE Risk and Low Bleed Risk	Enoxaparin or Heparin
≥ 5	High VTE Risk and Low Bleed Risk	Enoxaparin or Heparin AND SCD
> 2	High Bleed Risk	SCD

Patient Population	VTE Prophylaxis Regimens	
	Preferred Option	Alternative Option
High VTE Risk	Heparin 5000 units SQ every 8-12 hrs	Enoxaparin 40 mg SQ every 24 hrs
Renal impairment (CrCl < 30 mL/min)*	Heparin 5000 units SQ every 8-12 hrs	Enoxaparin 30 mg SQ every 24 hrs
*Not on hemodialysis		
Bariatric Surgery	Enoxaparin 40 mg SQ every 12 hrs	Heparin 5000 units SQ every 8-12 hrs
Major Trauma	Enoxaparin 30 mg SQ every 12 hrs	Heparin 5000 units SQ every 8-12 hrs
Abdominal/Pelvic Surgery for Cancer	Enoxaparin 40 mg SQ every 24 hrs	Heparin 5000 units SQ every 8-12 hrs
High Bleed Risk	Intermittent pneumatic compression devices (IPC)	Graduated compression stockings (GCS) or Venous foot pumps (VFP)

CPG Contact for Changes:

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