

Venous Thromboembolism Prophylaxis – Adult – Inpatient/Ambulatory

Appendix B. VTE Prophylaxis in Surgical Patients

Caprini Risk Assessment Model

1 Point	2 Points	3 Points	5 Points
Age 41-60	Age 61-74	Age ≥ 75	Acute spinal cord injury (< 1 mo)
Acute MI (<1 mo)	Central venous access	Established thrombophilia	Elective lower extremity arthroplasty
BMI > 25	Immobile ≥ 72 hrs	HIT	Hip, pelvis, or leg fracture (< 1 mo)
CHF exacerbation (<1 mo)	Leg plaster cast or brace	Hx of VTE	Stroke (< 1 mo)
Hx of Inflammatory Bowel Disease	Malignancy	Family hx VTE (1 degree relative)	
Procedure with local anesthesia	Surgery- arthroscopic		
Swollen legs or Varicose veins	Surgery > 45 mins		
Sepsis (< 1 mo)			
Serious lung dx ex. <i>Pneumonia</i> (<1 mo)			
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			

Points	Risk	Recommendation
0	Very Low VTE Risk	Early and frequent ambulation
1-2	Low VTE Risk	Mechanical Prophylaxis
3-4	Moderate VTE Risk and Low Bleed Risk	Pharmacologic Prophylaxis
> 5	High VTE Risk and Low Bleed Risk	Mechanical AND Pharmacologic Prophylaxis
> 2	High Bleed Risk	Mechanical Prophylaxis

VTE Prophylaxis Regimens for High VTE Risk General Surgery Patients

Patient Population	VTE Prophylaxis Regimens	
	Preferred Option	Alternative Option
High VTE Risk	Heparin 5000 units SQ every 8-12 hrs ^a	Enoxaparin 40 mg SQ every 24 hrs ^a
Renal impairment (CrCl < 30 mL/min)*	Heparin 5000 units SQ every 8-12 hrs ^a	Enoxaparin 30 mg SQ every 24 hrs ^b
*Not on hemodialysis		
Bariatric Surgery	Enoxaparin 40 mg SQ every 12 hrs ^a	Heparin 5000 units SQ every 8-12 hrs ^c
Major Trauma	Enoxaparin 30 mg SQ every 12 hrs ^a	Enoxaparin 0.5 mg/kg every 12 hrs Heparin 5000 units SQ every 8-12 hrs ^c
Abdominal/Pelvic Surgery for Cancer	Enoxaparin 40 mg SQ every 24 hrs ^b	Heparin 5000 units SQ every 8-12 hrs ^c

High Bleed Risk	Intermittent pneumatic compression devices (IPC) ^a	Graduated compression stockings (GCS) or Venous foot pumps (VFP) ^c
Cardiac Surgery	Heparin 5000 units SQ every 8-12 hrs	Enoxaparin 40 mg SQ every 24 hrs
Craniotomy	Intermittent pneumatic compression devices (IPC) ^a	Graduated compression stockings (GCS) or Venous foot pumps (VFP) ^c
Spinal Surgery	Intermittent pneumatic compression devices (IPC) ^a	Graduated compression stockings (GCS) or Venous foot pumps (VFP) ^c
Thoracic Surgery	Heparin 5000 units SQ every 8-12 hrs	Enoxaparin 40 mg SQ every 24 hrs
Trauma Surgery	Enoxaparin 30 mg every 12 hrs ^a	Enoxaparin 0.5 mg/kg every 12 hrs Heparin 5000 units SQ every 8-12 hrs ^c

a: UW Health GRADE Moderate quality evidence, strong recommendation

b: UW Health GRADE Low quality evidence, strong recommendation

c: UW Health GRADE Low quality evidence, weak/conditional recommendation

