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Venous Thromboembolism Risk Factor Assessment

Patient's Name:	_ Age:	Sex:	Wgt:	_Ibs Joseph A. Caprini, MD, MS, FACS, RVT
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Choose All That Apply

Each Risk Factor Represents 1 Point

- □ Age 41-60 years
- Minor surgery planned
- □ History of prior major surgery
- Varicose veins
- History of inflammatory bowel disease
- □ Swollen legs (current)
- □ Obesity (BMI >30)
- □ Acute myocardial infarction (< I month)</p>
- □ Congestive heart failure (< 1 month)
- □ Sepsis (< 1 month)
- Serious lung disease incl. pneumonia (< 1 month)
- □ Abnormal pulmonary function (COPD)
- Medical patient currently at bed rest
- Leg plaster cast or brace
- Other risk factors

Each Risk Factor Represents 3 Points

- □ Age over 75 years
- Major surgery lasting 2-3 hours
- □ BMI > 50 (venous stasis syndrome)
- □ History of SVT, DVT/PE
- □ Family history of DVT/PE
- Present cancer or chemotherapy
- Positive Factor V Leiden
- □ Positive Prothrombin 20210A
- Elevated serum homocysteine
- Positive Lupus anticoagulant
- □ Elevated anticardiolipin antibodies
- □ Heparin-induced thrombocytopenia (HIT)
- Other thrombophilia

Type

Each Risk Factor Represents 2 Points

- □ Age 60-74 years
- □ Major surgery (> 60 minutes)
- □ Arthroscopic surgery (> 60 minutes)
- □ Laparoscopic surgery (> 60 minutes)
- Previous malignancy
- Central venous access
- □ Morbid obesity (BMI >40)

Each Risk Factor Represents 5 Points

- □ Elective major lower extremity arthroplasty
- ☐ Hip, pelvis or leg fracture (< 1 month)
- □ Stroke (< 1 month)
- □ Multiple trauma (< 1 month)
- Acute spinal cord injury (paralysis)(< 1 month)
- Major surgery lasting over 3 hours

For Women Only (Each Represents 1 Point)

- Oral contraceptives or hormone replacement therapy
- □ Pregnancy or postpartum (<1 month)
- □ History of unexplained stillborn infant, recurrent spontaneous abortion (≥ 3), premature birth with toxemia or growthrestricted infant

Total Risk Factor Score



Please see Following Page for Prophylaxis Safety Considerations

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VTE Risk and Suggested Prophylaxis For Surgical Patients

Total Risk Factor Score	Incidence of DVT	Risk Level	Prophylaxis Regimen	Legend	
0-1	<10%	Low Risk	No specific measures; early ambulation	ES Floatio Stankings	
2	10-20%	Moderate Risk	Risk ES, IPC, LDUH (5000U BID) or LWMH (<3400 U)	- ES - Elastic Stockings IPC - Intermittent - Pneumatic Compression	
3-4	20-40%	High Risk	IPC, LDUH (5000U TID), or LMWH (>3400U)	LDUH - Low Dose Unfractionated Heparin LMWH - Low Molecular	
5 or more	40-80% 1-5% mortality	Highest Risk	Pharmacological: LDUH, LMWH (>3400 U)*, Warfarin*, or FXa I* alone <i>or</i> in combination with ES or IPC	Weight Heparin FXa I - Factor X Inhibitor	

*Use for major orthopedic surgery

Prophylaxis Safety Considerations: Check box if answer is 'YES'

Anticoagulants: Factors Associated with Increased Bleeding
☐ Is patient experiencing any active bleeding?
☐ Does patient have (or has had history of) heparin-induced thrombocytopenia?
☐ Is patient's platelet count <100,000/mm ³ ?
☐ Is patient taking oral anticoagulants, platelet inhibitors (e.g., NSAIDS, Clopidogrel, Salicylates)?
☐ Is patient's creatinine clearance abnormal? If yes, please indicate value
If any of the above boxes are checked, the patient may not be a candidate for anticoagulant therapy and you should consider alternative prophylactic measures: elastic stockings and/or IPC
Intermittent Pneumatic Compression (IPC)
☐ Does patient have severe peripheral arterial disease?
☐ Does patient have congestive heart failure?
☐ Does patient have an acute superficial/deep vein thrombosis?
If any of the above boxes are checked, then patient may not be a candidate for intermittent compression therapy and you should consider alternative prophylactic measures.

Based on: Geerts WH et al: Prevention of Venous Thromboembolism. Chest 2004;126(suppl 3):338S-400S; Nicolaides AN et al: 2001 International Consensus Statement: Prevention of Venous Thromboembolism, Guidelines According to Scientific Evidence.; Arcelus JI, Caprini JA, Traverso CI. International perspective on venous thromboembolism prophylaxis in surgery. Semin Thromb Hemost 1991;17(4):322-5.; Borow M, Goldson HJ. Postoperative venous thromboeins. Evaluation of five methods of treatment. Am J Surg 1981;141(2):245-51.; Caprini JA, Arcelus I, Traverso CI, et al. Clinical assessment of venous thromboembolic risk in surgical patients. Semin Thromb Hemost 1991;17(suppl 3):304-12.; Caprini JA, Arcelus JI et al: State-of-the-Art Venous Thromboembolism Prophylaxis. Scope 2001; 8: 228-240.; Caprini JA, Arcelus JI, Reyna JJ. Effective risk stratification of surgical and nonsurgical patients for venous thromboembolic disease. Seminars in Hematology, April 2001;38(2)Suppl 5:12-19.; Caprini, JA. Thrombosis risk assessment as a guide to quality patient care, Dis Mon 2005;51:70-78.; Oger E: Incidence of Venous Thromboembolism: A Community-based Study in Western France. Thromb Haemost 2000; 657-660.; Turpie AG, Bauer KA, Eriksson BI, et al. Fondaparinux vs. Enoxaparin for the Prevention of Venous Thromboembolism in Major Orthopedic Surgery: A Meta-analysis of 4 Randomized Double-Blind Studies. Arch Intern Med 2002; 162(16):1833-40.; Ringley et al: Evalution of intermittent pneumatic compression boots in congestive heart failure. American Surgeon 2002; 68(3): 286-9.; Morris et al. Effects of supine intermittent compression on arterial inflow to the lower limb. Archives of Surgery 2002. 137(11):1269-73.; Sugarman HJ et al, Ann Surg: 234 (1) 41-46, 2001

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Examiner______Date_____