Patient Safety Indicator

PSI 12 Post Op Venous Thromboembolism / Pulmonary Embolus

Henry Mayo Newhall Hospital

Definition

Elective surgery patient with a secondary diagnosis of Pulmonary Embolism (PE) or Venous ThromboEmbolism (VTE), not present on admission.

Population: Non-obstetric and 18 years or older

Exclusions

Extracorporeal Membrane Oxygenation (ECMO) patients

Acute Brain or Spinal cord injury patients

Patients with heparin induced thrombocytopenia

When only procedure is for interruption of vena cava and /or pulmonary arterial or dialysis access thrombectomy

Criteria for Accurate Reporting & Capture

Location of the PE/VTE (Acute vs. chronic must be documented)

Prophylaxis given or protocols followed

Is the PE/VTE related to the procedure just performed?

Risk Assessment

On admission or post operatively, the nurse will ask a series of questions to assess risk:

VTE Risk Assessment Complete	
VTE Risk Assessment Peformed	○ Yes ○ No
Thromboembolic Disease Risk Assessment	
Age	☐ (years)
Current Diagnosis	☐ Acute MI ☐ Trauma ☐ Hip/Knee Replacement Surg ☐ Acute CHF ☐ Sepsis
History	☐ Documented Hx of DVT/PE ☐ Known Hypercoagulable ☐ Malignancy ☐ Current Pregnancy ☐ Postpartum Under 1 month
Medical Treatments	☐ Mechanical Ventilation ☐ Presence of CVC or PICC ☐ Immobile,Bedrest > 3 Days
Respiratory	☐ Pneumonia ☐ Respiratory Failure ☐ COPD
Medications	☐ Estrogen Replacement ☐ Birth Control Pills ☐ Tamoxifen
Additional Medication	☐ Procrit/Epogen
Leg Condition	☐ Leg Swelling ☐ Varicose Veins ☐ Chronic Stasis
Ability to Move	☐ Spinal Cord Injury ☐ Stroke ☐ Paralysis
Obesity: BMI At or Above 30	☐ Yes
Thromboembolic Disease Risk Total Score	
VTE Risk Score	☐ (points) Documentation of MD Notification required for all VTE Risk Scores >1
VTE Risk	☐
VTE Risk Level	○ Low Risk
MD Notified of VTE Risk	○ Yes ○ No Comment ☐

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Interventions (Prevention) based on Risk Assessment and Patient Category

Every shift and PRN – Nursing does the following assessment and documents it:

VTE Prevention Nursing Guidelines	
VTE Prevention Guidelines Followed	○ Yes *Encourage early ambulation, as applicable *Call MD if PLATELETS below 100,000 or 50% less than baseline *Call MD with any signs of BLEEDING *Check Intermittent Pneumatic Compression Device position/function Q6H *For Surgical Patients: Refer to SCIP VTE Prophylaxis Guidelines
Reason VTE Device Not Applied	
Reason VTE Device Not Applied	○ Refusal
VTE Device Comment	
Anti-Embolic Device For VTE Prevention - Occurrence #1	
→ Location	○ Left Leg ○ Right Leg ○ Bilateral Legs
→ VTE Prevention Device	○ Anti-Embolic Stockings ○ Inter.Pneumatic Compress.
Actions	☐ Initiated ☐ Removed ☐ Discontinued ☐ In Place ☐ Reapplied ☐ Skin&Circulation Checked
Reason for Discontinuation	○ MD Order ○ Patient Ambulatory ○ Patient Request
Additional Information	
Platelet Monitoring For CONFIRMED VTE Dx	
Platelet Monitoring for Heparin Drip with CONFIRMED VTE Dx	○ Monitored Per Protocol *Call MD if Hemoglobin drops by 2 grams *Call MD if Hematocrit drops by 6% *Call MD if PLATELETS below 100,000 or 50% less than baseline *Call MD with any signs of BLEEDING
Anticoagulant Medication Education - Occurrence #1	
→ Anticoagulant Medication	○ Apixaban (Eliquis) ○ Enoxaparin (Lovenox) ○ Rivaroxaban (Xarelto) ○ Argatroban (Acova) ○ Fondaparinux Na (Arixtra) ○ Warfarin (Coumadin) ○ Dabigatran (Pradaxa) ○ Heparin ○ Other
→ Date Med Education Handout Given	Print the medication specific anticoagulant education (from globe in lower right hand corner of screen) & give handout ONE TIME ONLY.
Anticoagulation Teaching Components	☐ Adherence:Dose & Schedule ☐ Importance of Lab Testing ☐ Possible Drug Interaction ☐ Importance FollowUp Appts ☐ Possible Adverse Reaction ☐ Possible Food Interaction
Person Educated	☐ Patient ☐ Spouse/Significant Other ☐ Pt. Representative ☐ Parent(s) ☐ Legal Guardian ☐ Caregiver ☐ Family Member
Teaching Method	☐ Verbal Instruction ☐ Handouts/Pamphlets ☐ Verbal with Interpreter ☐ TV/Video/Other Media ☐ Demonstration
Response to Education	☐ Verbalizes Understanding ☐ Explains Accurately ☐ Offered and Refused ☐ Demonstrates Independent ☐ Teach Back ☐ Unable to Return Demo ☐ Demonstrates w/Assistance ☐ Requires Reinforcement ☐ Unable to Comprehend
Education Comment	
Anti-Embolic Device Education - Occurrence #1	
VTE Prevention Education Topic	○ Anti-Embolic Stockings ○ Inter.Pneumatic Compress.
VTE Prevention Education Topic Components	☐ Application of DVT Device ☐ Usage/Reason for Device ☐ Discontinuing DVT Device
Topic Pertinence	*Use this pertinence box to further specify which topic is being educated.
Person Educated	☐ Patient ☐ Spouse/Significant Other ☐ Parent(s) ☐ Legal Guardian ☐ Family Member
Teaching Method	☐ Verbal Instruction ☐ Handouts/Pamphlets ☐ Verbal with Interpreter ☐ TV/Video/Other Media ☐ Demonstration
Response to Education	☐ Verbalizes Understanding ☐ Demonstrates Independent ☐ Explains Accurately ☐ Demonstrates w/Assistance ☐ Requires Reinforcement ☐ Unable to Return Demo ☐ Offered and Refused ☐ Unable to Comprehend
Comment	