CLINICAL PRACTICE GUIDELINE FOR INITIATION OF VENOUS THROMBOEMBOLISM (VTE) PROPHYLAXIS IN THE PEDIATRIC ICU ORIGINAL PUBLICATION 2013 UPDATED: 1.30.24

ssess all patients at dmission to PICU and upon ny change in diagnosis/ ymptoms/surgical severity	*Assessment	Low Risk	At Risk	
	Mobility Status	Baseline	Baseline	Alte
atient should receive tandard intervention based n risk level within 24 hours f admission	VTE Risk Factors	None	1 or more	0
	Intervention	Low Risk	At Risk	
se the order set for PICU enous Thromboembolism	Encourage Ambulation/Mobility	х	х	
rophylaxis Orders in EPIC	PT/OT		х	
or patients with Acute VTE r on indefinite therapeutic	SCD and/or			
nticoagulation at baseline	Compression			
ex: APLA, IVC atresia, etc), lease refer to VTE	Stockings ^{**}			

Anticoagulation

Prophylaxis

(see Pharmacologic

Considerations below)

**Mechanical VTE prophylaxis indicated for patients >10 years

*adapted from http:// www.solutionsforpatientsafet y.org/wp-content/uploads/ SPS-Recommended-Bundles.pdf

Mobility Definitions:

Baseline-Usual state of ambulation or mobility

Antiphospholipid Antibody syndrome

• Braden $Q \le 16$ in the past 12 hours

• Burns >50% body surface area

• Cancer or malignancy, active

CVL or PICC, recent or current

Altered- Intubation, temporary inability to ambulate freely, includes an acute state of altered mobility or due to pharmacologic interventions, or injury. Expected immobility ≥72 hrs.

***VTE Risk Factors**

- Family history of VTE in 1st degree relative
- Hyperosmolar state
 - Immobilization, chronic
 - Infection or sepsis (acute)
 - Inflammatory bowel disease (IBD)
 - Inherited thrombophilia
 - Deficiencies: Protein C, S, or antithrombin - Gene mutations: Factor V Leiden or prothrombin

Dharmacologic Consideration

- Obesity:
 - < 18 years old & BMI >95th percentile - ≥ 18 years old & BMI >30
- Personal history of DVT/PE/Stroke
- Protein-losing disorder: nephrotic syndrome, chylous effusion, enteropathy
- Spinal cord injury

High Risk

Altered

2 or

more

High Risk

Х

Х

Х

Х

Altered

0 - 1

Х

Х

Х

- Surgery (within last 30 days)
- Systemic lupus erythematosus (SLE)
- Trauma

Pharmacologic Considerations				
PHARMACOLOGIC PROPHYLAXIS	CONTRAINDICATIONS TO PHARMACOLOGIC PROPHYLAXIS	MONITORING		
 Enoxaparin Patients < 2 months: 0.75 mg/kg subcutaneous BID, max dose 30 mg Patients ≥ 2 months: 0.5mg/kg subcutaneous BID, max dose 30 mg Patients > 60 kg: 40mg subcutaneous Daily Or 30mg subcutaneous BID Patients > 60 kg AND BMI >99 percentile: 40 mg subcutaneously BID Unfractionated Heparin 	 Ongoing or uncontrolled bleeding Uncorrected coagulopathy (PLT<50,000; Fibrinogen<100; INR>1.5; or PTT>2x control) Acute arterial ischemic stroke Suspected or known intracranial, intraspinal, or paraspinal hematoma Major allergy to pork products (LMWH only) History of heparin induced thrombocytopenia Intracranial monitoring (EVD/Bolt) CNS drain (epidural catheter/other) 	 Monitor heparin assay if Cr clearance < 30 mL/min Consider monitoring heparin assay if: Cr clearance < 60 mL/min <u>OR</u> Patient is < 12 months and UOP is < 1 mL/kg/hr Heparin assay for LMWH should be 0.2-0.5 		
 Patients <1 year: 20 units/kg/hr IV Patients ≥ 1 year: 10 units/kg/hr IV Continue Enoxaparin until Patient can ambulate 150 feet, at baseline mobility, &/or Risk Factors 	 Risk for major surgical bleeding within 24-48 hrs Family/Personal history of bleeding disorder Invasive procedure within 24 hours Obtain clearance from Neurosurgery to start 	Consider consulting pharmacy or hematology		

Obtain clearance from Neurosurgery to start pharmacologic prophylaxis in patients with spinal or cranial hemorrhage

Developed through the efforts of Children's Healthcare of Atlanta and physicians on Children's medical staff in the interest of advancing pediatric healthcare. This is a general guideline and does not represent a professional care standard governing providers' obligation to patients. Ultimately the patient's physician must determine the most appropriate care. © 2017 Children's Healthcare of Atlanta, Inc.

• Cyanotic heart disease or low-flow state Dehydration, severe

Treatment Guideline

DKA

• Critically ill

ad an

sy

st or

• Exogenous estrogen / oral contraceptive use, current or within 2 past weeks

are resolved