

Low Molecular Weight Heparin and Fondaparinux Adult Treatment Dosing and Monitoring Guidelines[‡]

Indication	Agent			Comments
	Enoxaparin (Lovenox [®])	Dalteparin (Fragmin [®])	Fondaparinux (Arixtra [®])	
DVT w/ or w/out PE	1 mg/kg SQ every 12 hours OR 1.5 mg/kg SQ <u>ONCE</u> Daily	**1st Month 200 IU/kg SQ <u>ONCE</u> Daily **Months 2 - 6 150 IU/kg SQ <u>ONCE</u> Daily	< 50kg: 5 mg SQ <u>ONCE</u> Daily 50 – 100kg: 7.5 mg SQ <u>ONCE</u> Daily > 100kg: 10 mg SQ <u>ONCE</u> Daily	Doses based on TBW Overlap with Warfarin 4-5 days AND until 2 <u>INRs</u> are in therapeutic range
Adjustment for CrCl < 30 mL/ min	1 mg/kg SQ <u>ONCE DAILY</u>	< 1 week No dose adjustments > 1 weeks Heparin Assay	Contraindicated in CrCl < 30 mL/min	Consider LMW Heparin Assay (Anti-Xa level) or SQ UFH
UA and N-STEMI	1 mg/kg SQ every 12 hours	120 IU/kg SQ every 12 hours (max 10,000 IU)	*2.5 mg SQ Daily	Doses based on TBW
STEMI	Single IV bolus of 30 mg + 1 mg/kg SQ every 12 hours	---	---	
Laboratory Monitoring				Comments
CBC (H/H, Platelets)	Baseline then periodically Watch for signs and symptoms of bleeding Monitor for sign of HIT (Enoxaparin and Dalteparin)			Formulary Flash on HIT available on clinical intranet
Serum Creatinine	Baseline then periodically			
LMW Heparin Assay (Anti-Xa level)	Consider in the following population: -Renal Insufficiency w/ CrCl < 30 mL/min -Obese (> 190 kg) or Low weight (< 50 kg) -Children -Liver Disease -Pregnancy			
Target Peak Treatment Levels	1mg/kg BID dosing: 0.5-1.1 units/mL 1.5mg/kg once daily dosing: 1.0-2.0 units/mL (Draw level 4 hours after 2 nd or 3 rd dose)		Not available at UHS	

HIT – Heparin Induced Thrombocytopenia, LMWH - Low Molecular Weight Heparin, N-STEMI - Non-ST segment elevation myocardial infarction, SQ - Subcutaneous, STEMI - ST segment elevation myocardial infarction, TBW- Total Body Weight, UA - Unstable Angina, UFH - Unfractionated Heparin

[‡]For information on anticoagulants in pediatrics, see guidelines posted to the clinical intranet

*Non-FDA approved indication

**Only FDA approve for VTE treatment in cancer patients