

LOW MOLECULAR WEIGHT HEPARIN DOSING RECOMMENDATIONS

CLINICAL SCENARIO	LMWH DOSING RECOMMENDATIONS	
	ENOXAPARIN (preferred LMWH)	DALTEPARIN (no dose-capping)
VTE PROPHYLAXIS		
Orthopedic surgery (hip/knee replacement, hip fracture)	30mg q12h	5000 units daily
Trauma	30mg q12h	5000 units daily
Acute spinal cord injury	30mg q12h	5000 units daily
Acute medical illness	40mg daily	5000 units daily
General surgery	40mg daily	5000 units daily
Bariatric surgery	40mg q12h	Not recommended
Morbid obesity (BMI > 40)	40mg q12h	Not recommended
Low body weight (wt ≤ 45 kg or BMI < 18.5)	30mg q24h or 40mg q24h	5000 units daily
Severe renal impairment (CrCl < 30)	30mg daily	5000 units daily
VTE TREATMENT		
Use total body weight (TBW) to calculate dosing		
Venous thrombosis (LMWH for a minimum of 5 days)	1mg/kg ¹ SQ q12h	200 units/kg ² daily
Cancer-associated venous thrombosis (LMWH for a minimum of 3-6 months)	Dalteparin preferred, or enoxaparin 1mg/kg ¹ q12h x 1 month, then 1.5 mg/kg ¹ daily	200 units/kg ² daily x 1 month, then 150 units/kg ² daily
Pregnancy	1mg/kg ¹ q12h	100 units/kg ³ q12h
Low body weight (wt ≤ 45 kg)	1mg/kg ¹ q12h	200 units/kg ⁴ daily
Obesity (wt ≥ 99 kg)	1mg/kg ¹ q12h	100 units/kg ³ q12h
Moderate renal impairment (CrCl 30-60)	0.85mg/kg ¹ q12h	200 units/kg ² daily
Severe renal impairment (CrCl < 30)	UFH preferred, or 1mg/kg ¹ daily	Not recommended
ACUTE CORONARY SYNDROME		
Use TBW to calculate dosing		
Unstable angina/NQWMI	1mg/kg ¹ q12h	120 units/kg ³ q12h
Renal impairment (CrCl < 60)	UFH preferred	UFH preferred
BRIDGE THERAPY		
Use TBW to calculate dosing. UFH preferred, or:		
Atrial fibrillation	1mg/kg ¹ q12h	100 Units/kg ³ q12 hrs
Heart valve replacement	1mg/kg ¹ q12h	100 Units/kg ³ q12 hrs
History of VTE	1mg/kg ¹ q12h	200 units/kg ² daily
Pregnancy	1mg/kg ¹ q12h	100 units/kg ³ q12 hrs
Low body weight (wt < 45 kg)	1mg/kg ¹ q12h	100 units/kg ⁴ q12 hrs
Obesity (wt > 99 kg)	1mg/kg ¹ q12h	100 units/kg ³ q12 hrs
Moderate renal impairment (CrCl 30-60)	0.85mg/kg ¹ q12h	100 units/kg ³ q12 hrs
Severe renal impairment (CrCl < 30)	UFH preferred, or 1mg/kg ¹ q24h	Not recommended

¹ rounded to nearest syringe marking

² rounded to nearest syringe size
(see below)

³ rounded to nearest 100 units
(use 25,000 unit/ml MDV)

⁴ rounded to nearest 500 units
(use 10,000 unit/ml graduated syringe)

DALTEPARIN DOSING PER TOTAL BODY WEIGHT		
TBW (kg)	Recommended syringe size for 200 U/kg daily dose*	Recommended syringe size for 150 U/kg daily dose
≤ 45 kg	200 units/kg ⁴ SQ daily	150 units/kg ⁴ SQ daily
46-56	10,000 units/1ml (graduated)	7500 units/0.3ml (not graduated)
57-68	12,500 units/0.5ml (not graduated)	10,000 units/1ml (graduated)
69-82	15,000 units/0.6ml (not graduated)	12,500 units/0.5ml (not graduated)
83-98	18,000 units/0.72ml (not graduated)	15,000 units/0.8ml (not graduated)
≥ 99 kg	100 units/kg ² SQ q12h	150 units/kg ² SQ daily