

LWMH DOSING RECOMMENDATIONS

UW Medicine (University of Washington Medical Center/Harborview Medical Center/SCCA) June 2010

* rounded to nearest syringe size, with no capping

** rounded to nearest 100 units using 25,000 U/ml MDV with no capping

***rounded to nearest 500 units using 10,000 U/ml syringe, with no capping

CLINICAL SCENARIO	LMWH DOSING RECOMMENDATION	
	INPATIENT	OUTPATIENT
VTE PROPHYLAXIS		
Orthopedic surgery	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
Trauma	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
Acute Spinal cord injury	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
Acute medical illness	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
General surgery	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
Bariatric surgery	Enoxaparin 40mg every 12 hours	Enoxaparin 40mg every 12 hours
Morbid obesity (BMI>40)	Enoxaparin 40mg every 12 hours	Enoxaparin 40mg every 12 hours
Severe renal impairment (Clcr < 30)	Dalteparin 5000 units every 24 hours	Dalteparin 5000 units every 24 hours
VTE TREATMENT		
Venous thrombosis	<i>Dalteparin 200 units/kg every 24 hours*</i>	<i>Dalteparin 200 units/kg every 24 hours*</i>
Cancer-associated venous thrombosis	<i>Dalteparin 200 units/kg daily X 1 month, then 150 Units/kg daily for a minimum of 3-6 months*</i>	<i>Dalteparin 200 units/kg daily X 1 month, then 150 Units/kg daily for a minimum of 3-6 months*</i>
Pregnancy	Dalteparin 100 units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
Low body weight (wt < 45 kg)	Dalteparin 200 units/kg every 24 hrs***	Dalteparin 200 unit/kg every 24 hrs***
Obesity (wt ≥ 99kg)	Dalteparin 100 units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
Moderate renal impairment (Clcr 30-60)	<i>Dalteparin 200 units/kg every 24 hours*</i>	<i>Dalteparin 200 units/kg every 24 hours*</i>
Severe renal impairment (Clcr<30)	UFH preferred, or Enoxaparin 1mg/kg every 24 hours	Enoxaparin 1mg/kg every 24 hours
ACUTE CORONARY SYNDROME		
Unstable angina/NQWMI	Dalteparin 120 Units/kg every 12 hrs**	Not applicable
Renal Impairment (Clcr<60)	UFH preferred	Not applicable
BRIDGE THERAPY	UFH preferred, or:	
Atrial fibrillation	Dalteparin 100 Units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
Heart valve replacement	Dalteparin 100 Units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
History of VTE	<i>Dalteparin 200 units/kg every 24 hours*</i>	<i>Dalteparin 200 units/kg every 24 hours*</i>
Pregnancy	Dalteparin 100 units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
Low body weight (wt ≤ 45 kg)	Dalteparin 100 units/kg every 12 hrs***	Enoxaparin 1mg/kg every 12 hrs
Obesity (wt ≥ 99kg)	Dalteparin 100 units/kg every 12 hrs**	Enoxaparin 1mg/kg every 12 hrs
Moderate renal impairment (Clcr 30-60)	Dalteparin 100 units/kg every 12 hrs**	Enoxaparin 0.85mg/kg every 12 hrs
Severe renal impairment (Clcr<30)	UFH preferred	Enoxaparin 1mg/kg every 24 hrs

TBW (kg)	Recommended syringe size for 200 U/kg q24h dose*	Actual dose range delivered	Recommended syringe size for 150 U/kg q24h dose	Actual dose range delivered
≤ 45 kg	200 units/kg SQ every 24hrs rounded to nearest 500 units using 10,000 units/ml graduated syringe	200 units/kg every 24hrs***	150 units/kg SQ every 24hrs rounded to nearest 500 units using 10,000 units/mL graduated syringe	150 units/kg q24h***
46 -56	10,000 units/1mL (graduated)	217.4 - 178.5 Units/kg	7500 units/0.3mL (not graduated)	134– 163 units/kg
57-68	12,500 units/0.5mL (not graduated)	219 – 183.8 Units/kg	10,000 units/1mL (graduated)	147– 175 units/kg
69-82	15,000 units/0.6mL (not graduated)	217– 182.3 Units/kg	12,500 units/0.5mL (not graduated)	152 - 181 units/kg
83-98	18,000 units/0.72mL (not graduated)	216.8– 183.6 Units/kg	15,000 units/0.8mL (not graduated)	153 - 180 units/kg
≥99 kg	100 units/kg SQ every 12hrs rounded to nearest 100 units drawn up using 25,000 units/mL MDV	100 units/kg every 12h**	150 units/kg SQ q24h rounded to nearest 100 units drawn up using 25,000 units/mL MDV	150 units/kg q24h**