

Antenatal and postnatal prophylactic doses and monitoring of LMWH

BMI (kg/m2)	LMWH	Anti Xa monitoring required? Yes/No	Required Anti- Factor Xa levels Post dose (0.2- 0.4)
<35	Dalteparin prescribed using weight based dose: Weight <50kg = 2500 units Weight 50-90kg 5000 units Weight 91-130kg 7500 units	No	n/a
35-40	Tinzaparin 8000 units	Yes	2-4 hours post dose weekly until correct dose established
41-50	Tinzaparin 10000 units	Yes	2-4 hours post dose weekly until correct dose established
>50	Tinzaparin 12000 units	Yes	2-4 hours post dose weekly until correct dose established

Once women are on the correct thromboprophylactic dose, a three month prescription can be provided by the hospital pharmacy. After this point the patient needs a further prescription provided by the hospital.

Postnatal prophylactic Dalteparin dosing

Weight (kg)	Dalteparin dose daily
<50	2500units
50-90	5000units
91-130	7500units
131-170	10000units
>170	75units/kg/day



Contraindications to LMWH

Potential contraindications include:

- Active Bleeding
- Acquired bleeding disorders (such as acute liver failure)
- Previous HIT
- Concurrent use of anticoagulants known to increase the risk of bleeding (such as warfarin with INR higher than 2)
- Lumbar puncture/epidural/spinal anaesthesia expected within the next 12 hours
- Lumbar puncture/epidural/spinal anaesthesia within the previous 4 hours
- Acute stroke and/or other CNS bleeding risk.
- Thrombocytopenia (platelets less than 50 x 10⁹/L or falling
- Uncontrolled systolic hypertension (230/120 mmHg or higher)
- Impaired renal function (may require reduced dose and close monitoring)
- <u>Untreated</u> inherited bleeding disorders (such as haemophilia and von Willebrand's disease)



Antenatal risk assessment for venous thromboembolism

Majo	Major risk factors for thrombosis (score as		Minor risk factors for thrombosis (score 1 for	
indicated)		each risk factor).		
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*	Previous VTE (equivalent to 4 minor risk		* Age >35	
	factors)			
	,		* BMI 30-39	
*	Previous VTE provoked by major surgery			
	(equivalent to 3 minor risk factors)		* Parity 3 or more	
	(
*	Medical comorbidities (equivalent to 3		* Family history of unprovoked or	
	minor risk factors)		oestrogen related VTE in first degree	
			relative at age <50.	
	heart failure			
			* Low risk thrombophilia: heterozygous for	
	cancer,		FVL or PGV	
	active SLE,		 Multiple pregnancy or assisted 	
	Active IBD or inflammatory		reproductive techniques (ART)	
	polyarthropathy,			
			* Gross Varicose Veins	
	nephrotic syndrome,			
			* Current systemic infection	
	type 1 DM with nephropathy,		* Pro oclampsia	
	sickle cell disease, current IVDU.		* Pre-eclampsia	
	sickle cell disease, current woo.		* Smoker > 30 per day	
*	High risk thrombophilia (equivalent to 3		Sinokei > 50 per day	
	minor risk factors): Antithrombin 3,		* Immobility/reduced mobility (e.g.	
	Protein S and C deficiency, compound		inpatient stay)	
			inpatient stay)	
	or homozygous for low-risk			
	thrombophilias.			
*	BMI ≥ 50 (= 3 minor risk factors)			
*	BMI 40-49 (= 2 minor risk factors)			
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Score \geq 4 – offer LMWH prophylaxis from the first trimester Score = 3 – offer LMWH prophylaxis from 28 weeks

Score = 2 – mobilization and avoidance of dehydration; offer LMWH prophylaxis during hospital admission



Postnatal risk assessment for venous thromboembolism

Only offer	Major risk factors			Only offer
BKAS	-		Offer LMWH prophylaxis for	BKAS
postnatally	1. Previous VTE			
to women	2. Antenatal LMWH		at least 6 weeks.	postnatally
delivered	3. High risk thrombophilia			to women
	4. Low risk thrombophilia			delivered
by C-	and family history of VTE			by C-
section				section
who also				who also
have any	Intermediate risk factors			have any
of the				of the
additional	1. Caesarean section in	l l		additional
risks as	labour			risks as
below:	2. BMI > 40			
	3. Readmission or prolonged			below:
* is on	admission ≥3 days.			*:
treatment	4. Any surgical procedure in		Offer LMWH prophylaxis for at	* is on
	puerperium except			treatment
dose	immediate repair of		least 7 days	dose
LMWH	perineum			LMWH
¥	5. Medical co-morbidities:			
* has 3 or	heart failure, cancer, active SLE,			* has 3 or
more	active or inflammatory polyarthropathy, nephrotic			more
postnatal	syndrome, type 1 DM with			postnatal
risk factors	nephropathy, sickle cell disease,			risk factors
				TISK TUCCOTS
* has been	Minor risk factors	I		* has been
on	1. Age > 35			on
antenatal	2. Parity≥3			
prophylaxis	3. BMi ≥ 30			antenatal
from the	4. Smoker			prophylaxis
	5. Elective CS	N		from the
first	6. Family history of VTE			first
trimester	7. Low risk thrombophilia			trimester
* has a	8. Gross varicose veins		≥ 2 risk factors offer LMWH	
	 9. Current systemic infection 10. Immobility (ie HDU 	<u>></u>	≥ 2 risk factors offer LIVIWH	* has a
cardiac	admission)		prophylaxis for at least 7 days	cardiac
careplan	11. Pre-eclampsia	_ /		careplan
	12. Multiple pregnancy			
	13. Preterm delivery (<37 weeks)			
	14. Stillbirth			
	15. Prolonged labour (>24 hrs)			
	16. PPH >1 L or blood			
	transfusion			
	Mid cavity rotational or			J
	operative delivery			