

Postnatal venous thromboprophylaxis risk (VTE) assessment sheet

Assess woman postnatally and if re-admitted postnatally.

All women must be given verbal and written information on VTE. Information given

Date	Gestation	Risk category	action	comments	signature/designation
		High	<input type="checkbox"/> LMWH* ANC		
		Intermediate	<input type="checkbox"/> LMWH* ANC		
		Low	<input type="checkbox"/> Advice only		
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*Balance risk of bleeding against risk of VTE. Women at high risk of hemorrhage with risk factors including major antepartum hemorrhage, coagulopathy, progressive wound hematoma, suspected intra-abdominal bleeding and postpartum hemorrhage may be managed with foot impulse devices, intermittent pneumatic compression devices or Anti-embolic stocking.

Postnatal prophylactic dose of Low Molecular Weight Heparin (LMWH)

Once daily dosing for postnatal prophylaxis.

Booking weight	Once daily dosing
< 50 kg	2500 units once daily
50 - 90 kg	5000 units once daily
91 - 130kg	7500 units once daily
131-170 kg	10000 units once daily
> 170 kg	Discuss with Consultant Haematologist

Use a combination of 2500 unit, 5000 unit, 7500 unit and 10000 unit dalteparin pre-filled syringes.

For obstetric use dalteparin is a red (hospital only) drug and ongoing supplies should be prescribed by the hospital clinician.

Antenatal venous thromboprophylaxis (VTE) risk assessment and management (to be assessed at booking, 36 weeks gestation and repeated at any hospital admission)

Document on risk assessment sheet overleaf

Tick box below

Any previous VTE (except a single event related to major surgery)

High risk
Requires antenatal prophylaxis with LMWH
Refer to Obstetric Consultant in the 1st trimester

Hospital admission Please see below
 Single previous VTE related to major surgery
 High-risk thrombophilia + no VTE (see below)
 Medical comorbidities e.g. cancer, heart failure, active SLE, IBD or inflammatory polyarthropathy, nephrotic syndrome, Type 1 DM with nephropathy, sickle cell disease, current IVDU
 Any surgical procedure e.g. appendectomy
 Ovarian hyperstimulation syndrome OHSS (first trimester only)

Intermediate Risk
Consider antenatal prophylaxis with LMWH
Refer to Obstetric Consultant

Obesity (BMI > 30kg/m²)
 Age > 35 years
 Parity ≥ 3
 Smoker
 Gross varicose veins
 Current pre-eclampsia
 Immobility e.g. paraplegia, PGP
 Family history of unprovoked or Oestrogen-provoked VTE in first-degree relative
 Low-risk thrombophilia
 Multiple pregnancy
 IVF/ART <12/52 weeks gestation.

Four or more risk factors:
Consider antenatal prophylaxis from first trimester
 Three risk factors:
Consider antenatal Prophylaxis from 28 weeks

Fewer than three risk factors

Lower risk
Mobilisation and avoidance of dehydration

Transient risk factors: Dehydration/hyperemesis, current systemic infection, long distance travel

Bleeding risks / exclusion criteria

Patient related
 Active bleeding
 Acquired bleeding disorders (e.g. acute liver failure)
 Concurrent use of anticoagulants known to increase the risk of bleeding (such as warfarin with INR >2)
 Acute stroke
 Thrombocytopenia (platelets <75 x 10⁹/L)
 Uncontrolled systolic hypertension (200 mmHg or >120 mmHg diastolic)
 Untreated inherited bleeding disorders (such as haemophilia and von Willebrand's disease)
 Severe renal disease (CrCl <30ml/min)
 Severe liver disease (prothrombin time above normal range or known varices)
 Women considered at increased risk of major haemorrhage (e.g. placenta praevia)
 Surgical procedure with a high bleeding risk
 Lumbar puncture/epidural/spinal anaesthesia within the next 12 hours
 Lumbar puncture/epidural/ spinal anaesthesia with in the previous 6 hours

Thrombophilias

Low risk (+ no previous VTE)
 Heterozygous
 Prothrombin gene mutation / Factor V Leiden
 Protein C deficiency
 Protein S deficiency
High risk (+ no previous VTE)
 Homozygous FVL/PGM or compound abnormalities
 Anti-thrombin deficiency: Anti-phospholipid syndrome
 Anticardiolipin antibodies / Lupus anticoagulant

Hospital admissions:

All women should receive LMWH for the duration of their admission.
 If prolonged admission for 3 or more days or persistent transient risk factors, then LMWH should be considered for the duration of the pregnancy and up to 6 weeks postpartum.

Antenatal venous thrombophylaxis risk (VTE) assessment sheet

Assess woman at booking and on each antenatal admission.

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* Balance risk of bleeding against risk of VTE. Women at high risk of hemorrhage with risk factors including major antepartum hemorrhage, coagulopathy, progressive wound hematoma, suspected intra-abdominal bleeding and postpartum hemorrhage may be managed with foot impulse devices, intermittent pneumatic compression devices or Anti-embolic stocking.

Antenatal prophylactic dose of Low Molecular Weight Heparin (LMWH)

Once daily dosing for antenatal prophylaxis.

Booking weight	Once daily dosing
< 50 kg	2500 units once daily
50 - 90 kg	5000 units once daily
91 - 130kg	7500 units once daily
131-170 kg	10000 units once daily
> 170 kg	Discuss with Consultant Haematologist

Use a combination of 2500 unit, 5000 unit, 7500 unit and 10000 unit dalteparin pre-filled syringes.

For obstetric use dalteparin is a red (hospital only) drug and ongoing supplies should be prescribed by the hospital clinician.

Postnatal venous thrombophylaxis (VTE) risk assessment and management - to be assessed on delivery suite

- Any previous VTE
- Antenatal LMWH throughout A/N period
- High-risk thrombophilia
- Low risk thrombophilia +FHX of oestrogen related VTE

- Caesarean section in labour
- BMI > 40kg/m²
- Readmission or prolonged admission (≥ 3 days)
- Any surgical procedure in the puerperium except immediate repair of the perineum
- Medical comorbidities e.g. cancer, heart failure, active SLE, IBD or inflammatory polyarthropathy, nephrotic syndrome, type 1 DM with nephropathy, sickle cell disease, current IVDU

- Age >35 years
- Obesity (BMI greater or equal to 30 Kg/m²)
- Parity Greater or equal to 3)
- Smoker
- Elective caesarean section
- Family history of VTE
- Low-risk thrombophilia
- Gross varicose veins
- Current systemic infection
- Immobility, e.g. paraplegia, PGP, long distance travel
- Current pre-eclampsia
- Multiple pregnancy
- Preterm delivery in this pregnancy (<37+0 weeks)
- Stillbirth in this pregnancy
- Mid-cavity rotational or operative delivery
- Prolonged labour (>24 hours)
- PPH > 1litre or blood transfusion

Bleeding risks / exclusion criteria

Patient related

- Active bleeding
- Acquired bleeding disorders (e.g. acute liver failure)
- Concurrent use of anticoagulants known to increase the risk of bleeding (such as warfarin with INR >2)
- Acute stroke
- Thrombocytopenia (platelets <75 x 10⁹/L)
- Uncontrolled systolic hypertension (200 mmHg or >120 mmHg diastolic)
- Untreated inherited bleeding disorders (such as haemophilia and von Willebrand's disease)
- Severe renal disease (CrCl <30ml/min)
- Severe liver disease (prothrombin time above normal range or known varices)
- Surgical procedure with a high bleeding risk
- Lumbar puncture/epidural/ spinal anaesthesia with in the previous 6 hours

Thrombophilias

- Low risk (+ no previous VTE)**
- Heterozygous
- Prothrombin gene mutation / Factor V Leiden
- Protein C deficiency
- Protein S deficiency
- High risk (+ no previous VTE)**
- Homozygous FVL/PGM or compound abnormalities
- Anti-thrombin deficiency: Anti-phospholipid syndrome
- Anticardiolipin antibodies / Lupus anticoagulant

High risk
Consider 6 weeks postnatal prophylactic LMWH

Intermediate Risk
Consider 10 days postnatal prophylactic LMWH
NB if persisting or > 3 risk factors consider extending prophylaxis with LMWH

Two or more risk factors

Fewer than two risk factors

Lower risk
Mobilisation and avoidance of dehydration