## Appendix U: Royal College of Obstetricians and Gynaecologists' VTE risk assessment tool

Appendix I: Obstetric thromboprophylaxis risk assessment and management

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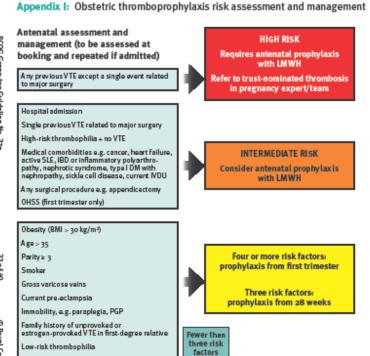
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Multiple pregnancy

Transient risk factors:

Dehy dration/ hyperemesis; current systemic infection; long-distance travel

IVE/A.RT

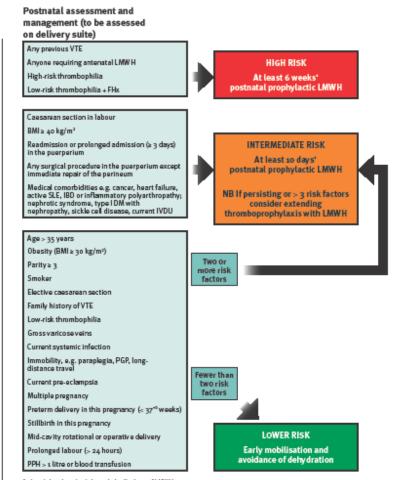


APL = antiphospholipid antibodies (lupus anticoagulant, anticardiolipin antibodies, β,-glycoprotein s antibodies); ART = assisted reproductive technology; BMI based on booking weight; DM = diabetes mellitus; FHx = family history; gross varicose veins = symptomatic, above knee or associated with phiebitis/oedema/skin changes; high-risk thrombophilia = antithrombin deficiency, protein C or S deficiency, compound or homozygous for low-risk thrombophilias; IBD = inflammatory bowel disease; immobility = 2 3 days; MDU = intravenous drug user; WF = in vitro fertilisation; LMWH = low-molecular-weight heparin; long-distance travel = > 4 hours; low-risk thrombophilla = heterozygous for factor V Leiden or prothrombin G2o2toA mutations; OHSS = ovarian hyperstimulation syndrome; PGP = pelvic girdle pain with reduced mobility; PPH = postpartum haemorrhage; thrombophilia = inherited or acquired; VTE = venous thromboembolism.

LOWER RISK

Mobilisation and

avoidance of dehydration



## Antenatal and postnatal prophylactic dose of LMWH

Weight < 50 kg = 20 mg enoxaparin/2500 units datteparin/3500 units tinzaparin daily Weight 50-90 kg = 40 mg enox aparin/5000 units dalteparin/4500 units tinzaparin daily Weight 91-130 kg = 60 mg enoxaparin/7 500 units dalteparin/7000 units tinzaparin daily Weight 131-170 kg = 80 mg enoxaparin/10000 units daiteparin/9000 units tinzaparin daily Weight > 170 kg = 0.6 mg/kg/day enoxaparin/ 75 u/kg/day daiteparin/ 75 u/kg/day tinzaparin

## Appendix III: Risk assessment for venous thromboembolism (VTE)

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- If total score & 4 antenatally, consider thromboprophylaxis from the first trimester.
- If total score 3 antenatally, consider thromboprophy taxis from 28 weeks.
- If total score a 2 postnatally, consider thromboprophylaxis for at least 10 days.
- If admitted to hospital antenatally consider thromboprophylaxis.
- If prolonged admission (£ 3 days) or readmission to hospital within the puerperium consider thromboprophylaxis.

Risk factors for VTE

For patients with an identified bleeding risk, the balance of risks of bleeding and thrombosis should be discussed in consultation with a haematologist with expertise in thrombosis and bleeding in pregnancy.

Pre-existing risk factors	Tick	Score
Previous VTE (except a single event related to major surgery)		4
Previous VTE provoked by major surgery		3
Known high-risk thrombophilia		3
Medical comorbidities e.g. cancer, heart failure; active systemic lupus erythematosus, inflammatory polyarthropathy or inflammatory bowel disease; nephrotic syndrome; type I diabetes mellitus with nephropathy; sickle cell disease; current intravenous drug user		3
Family history of unprovoked or estrogen-related VTE in first-degree relative		1
Known low-risk thrombophilia (no VTE)		t <sup>a</sup>
Age (> 35 years)		1
Obesity		1 Of 2 <sup>b</sup>
Parity ± 3		1
Smoker		1
Gross varicose veins		1
Obstetric risk factors		
Pre-eclampsia in current pregnancy		1
ART/NF (antenatal only)		1
Multiple pregnancy		1
Caesarean section in labour	0 0	2
Elective caesarean section		1
Mid-cavity or rotational operative delivery		1
Prolonged labour (> 24 hours)		1
PPH (> 1 litre or transfusion)		1
Preterm birth < 37**weeks in current pregnancy		1
Stillbirth in current pregnancy		1

O135 (ilist timester only)	
Current systemic infection	1
Immobility, dehydration	1
TOTAL	a a

Abbreviations: ART assisted reproductive technology; IVF in vitro fertilisation; OHSS ovarian hyperstimulation syndrome; VTE venous thromboembolism.

Hyperemesis

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Any surgical procedure in pregnancy or puerperium except immediate repair of the perineum, e.g. appendicectomy, postpartum sterilisation

If the known low-risk thrombophilia is in a woman with a family history of VTE in a first-degree relative postpartum thromboprophylaxis should be continued for 6 weeks.

BMI≥30=1; BMI≥40=2

Contraindications/cautions to LMWH use	
Known bleeding disorder (e.g. haemophilia, von Willebrand's disease or acquired coagulopathy)	
Active antenatal or postpartum bleeding	
Women considered at increased risk of major haemorrhage (e.g. placenta praevia)	
Thrombocytopenia (platelet count < 75 × 10°/l)	
Acute stroke in previous 4 weeks (haemorrhagic or ischaemic)	
Severe renal disease (glomerular filtration rate [GFR] < 30 ml/minute/1.73m²)	
Severe liver disease (prothrombin time above normal range or known varices)	
Uncontrolled hypertension (blood pressure > 200 mmHg systolic or > 120 mmHg diastolic)	

Clinical and laboratory thresholds are taken from the Department of Health's guidelines based on evidence from the nonpregnant population.<sup>5</sup>

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