

RISK ASSESSMENT & TREATMENT GUIDE FOR OBSTETRIC THROMBOPROPHYLAXIS

DEFINITIONS

High-Risk Thrombophilias	• Factor V Leiden Homozygote • Factor II Homozygote (= Prothrombin =G20210A) • Factor V Heterozygote with Factor II Heterozygote Combination • Antithrombin III Deficiency
Low-Risk Thrombophilias	• Protien C Deficiency • Protien S Deficiency • Factor V Leiden Heterozygote • Factor II Heterozygote

WHEN TO TEST	WORKUP	LABORATORY EVALUATION
History of unprovoked VTE	1st Degree relative with history of high-risk thrombophilia	Full Thrombophilia Panel: • Protein C & S deficiencies • Factor V Leiden • Prothrombin G20210A • Anticardiolipin • Lupus Anticoagulant • Anti-beta 2 glycoprotein
One or more IUFD or SAB after10wga		Acquired Thrombophilia Panel: • Anticardiolipin • Lupus anticoagulant • Anti-beta 2 glycoprotein
One or more preterm births due to condition associated with placental insufficiency (eclampsia/severe pre-e)		
Three or more unexplained SAB before 10wga		

TREATMENT		POSTPARTUM
HIGH RISK CATEGORIES		
Treat Throughout Entire Pregnancy		Treat Total 6 Weeks Postpartum
High-risk thrombophilia without history of VTE	Prophylactic Dose	High-risk thrombophilia without history of VTE
History of unprovoked VTE		History of unprovoked VTE
History of VTE caused by pregnancy or high estrogen state		History of VTE caused by pregnancy or high estrogen state
Antiphospholipid syndrome with prioradverse pregnancy outcome		Antiphospholipid Syndrome without history of VTE, with previous adverse pregnancy outcome
Low-risk thrombophilia with history of VTE	Therapeutic Dose	Low-risk thrombophilia with history of VTE
Long term anticoagulation before pregnancy		High-risk thrombophilia with history of VTE
Mechanical heart valve		History of >2 VTE not already on treatment
High-risk thrombophilia with history of VTE		Antiphospholipid Syndrome with history of VTE
History of >2 VTE not already on treatment		
Antiphospholipid Syndrome with history of VTE		
INTERMEDIATE RISK CATEGORIES		
Starting at 28 weeks gestational age		For 10 days postpartum
Sickle cell disease	Prophylactic Dose	Sickle cell disease
Maternal heart disease		Maternal heart disease
Active lupus flare		Active lupus flare
Active inflammatory polyarthropathy		Postpartum transfusion
Active inflammatory bowel disease	Immobilization/bedrest for >7 days per expert opinion	
Uncontrolled nephrotic syndrome		
Type 1 diabetes mellitus with nephropathy		
LOW RISK CATEGORIES		
If ≥ 4 factors = prophylactic treatment throughout pregnancy	If ≥ 4 factors = prophylactic dosage for 6 weeks postpartum	If ≥ 4 factors = prophylactic dosage for 6 weeks postpartum
If 3 factors = prophylactic dosage starting at 28 weeks gestational age		
If < 3 factors = close surveillance		If < 3 factors = close surveillance
Low risk thrombophilia without history of VTE	1st degree relative with history of estrogen-provoked VTE	Low-risk thrombophilia without history of VTE
History of provoked VTE (i.e. long car ride, surgery)		History of provoked VTE (i.e. long car ride, surgery)
1st degree relative with history of estrogen-provoked VTE		1st degree relative with history of estrogen-provoked VTE
Active smoker > 10 cigarettes/day		Active smoker >10 cigarettes/day
Age > 35 years old at expected delivery date	Age >35 years old at delivery date	Age >35 years old at delivery date
BMI > 40 pre-pregnancy		BMI > 40 pre-pregnancy
Active pre-eclampsia, mild or severe		Cesarean delivery
Multiple gestation pregnancy	Postpartum hemorrhage (>1L of blood loss)	Postpartum hemorrhage (>1L of blood loss)
Immobility/strict bed rest for >7 days		Active infection
	Pre-eclampsia in this pregnancy, mild or severe	Pre-eclampsia in this pregnancy, mild or severe
		Multiple gestation pregnancy
DOSAGE GUIDES		
Therapeutic dosing	LMWH: Enoxaparin 1mg/kg SC q12h UFH: IV dose of 5,000 IU loading; then follow protocol and aPTT levels	
Prophylactic dosing	LMWH	50-90kg 40mg SC daily 20mg SC daily 40mg SC q12h
	UFH	First trimester 5,000 BID Second trimester 7,500 BID Third trimester 10,000 BID
UNIQUE CASES		
Ovarian hyperstimulation syndrome	Therapeutic dosage from onset to 12 weeks gestation only	
Acute VTE in this pregnancy	Therapeutic dosage until at least 6 weeks postpartum, for a total of 6 months from diagnosis	
Surgery during pregnancy (i.e. appenectomy)	Prophylactic dosage while inpatient during hospital stay	
Cardiomyopathy or maternal cancer	Prophylactic dosing at conception if pre-existing conditions or at time of diagnosis during pregnancy and continue through 6 weeks partpartum	
Mechanical heart valve	Maintain Coumadin if <= 5mg throughout; convert to therapeutic LMWK 1wk prior to delivery	