

ANTICOAGULATION GUIDELINES FOR NEURAXIAL PROCEDURES

Guidelines to Minimize Risk Spinal Hematoma with Neuraxial Procedures



	Minimum time between last dose of anticoagulant & spinal injection or catheter placement * longer in CRI/AKI	Use of Antithrombotic Agents in Patients with Indwelling Neuraxial Catheters	Minimum time between spinal injection or catheter removal & next dose of anticoagulant
TRADITIONAL ANTICOAGULANTS			
Warfarin	when INR < 1.5	CONTRAINDICATED	2 hours
Heparin full dose IV	when aPTT < 40. Check after holding 2 hours	Indwelling catheter OK	1 hour
Heparin minidose (5000 Units) SQ BID	No contraindication		
Heparin minidose (5000 Units) SQ TID	when aPTT < 40 or 6 hours after last dose		
Heparin full dose (>5000 Units) SQ bid or TID	when aPTT <40 or 6 hours after last dose		
Fondaparinux (Arixtra) <2.5mg SQ qd (prophylaxis)	36-42 hours	CONTRAINDICATED	6-12 hours
Fondaparinux (Arixtra) 5-10mg SQ qd (full dose)	Contraindicated		
Enoxaparin (Lovenox) 1mg/kg SQ bid; 1.5mg/kg SQ qd (full dose)	24 hours*		24 hours
Enoxaparin (Lovenox) 40mg SQ qd (prophylaxis)	12 hours*		6-8 hours
DIRECT THROMBIN INHIBITORS			
Argatroban	unknown or when DTI assay < 40 or aPTT < 40	CONTRAINDICATED while catheter in place	unknown
Bivalirudin (Angiomax)			
Lepirudin (Refludan)			
Dabigatran (Pradaxa)	7 days		
ORAL ANTIPLATELET AGENTS			
Aspirin/NSAIDS	May be given, No time restrictions		
Clopidogrel (Plavix) Prasugrel (Effient)	7 days	CONTRAINDICATED while catheter in place	2 hours
Ticlopidine (Ticlid)	14 days		
GP IIB/IIIA INHIBITORS			
Abx cimab (Reopro)	48 hours	CONTRAINDICATED while catheter in place	2 hours
Eptifibatide (Integrilin)	8 hours*		
Tirofiban (Aggrastat)	8 hours*		
THROMBOLYTIC AGENTS			
Alteplase (TPA) Full dose for stroke, MI, etc	10 days	CONTRAINDICATED while catheter in place	10 days
Alteplase (TPA) 2mg dose for catheter clearance	May be given, No time restrictions (maximum dose 4mg/24 hrs)		
NEW AGENTS			
Apixaban (Eliquis)	unknown for neuraxial procedures but hold 48 hours for surgery		

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