



**PAIN SERVICE
ATTENDING APPROVAL
REQUIRED FOR USE OF
ANY ANTITHROMBOTIC
AGENT OUTSIDE THESE
GUIDELINES**

Bloody Tap? Call Pain Service

**ATTENTION!
WHEN CAN YOU SAFELY DO NEURAXIAL PROCEDURES
OR GIVE ANTICOAGULANTS?**

Minimum time between last dose of anticoagulant and when spinal injection or catheter placement can occur

* longer in patients with renal impairment

Use of Antithrombotic Agents in Patients with Indwelling Neuraxial Catheters

Minimum time between spinal injection or catheter removal and when next dose of anticoagulant can be given

ANTICOAGULANTS

warfarin	when INR < 1.5	CONTRAINDICATED while catheter in place	2 hours
heparin full dose IV	when aPTT < 40		
heparin full dose (>5000 Units) SQ bid or TID	when aPTT < 40		
heparin minidose (5000 Units) SQ bid or TID	May be given; No time restrictions for catheter placement or removal		
drotrecogin alfa (<i>Xigris</i>)	24 hours	CONTRAINDICATED while catheter in place	2 hours
fondaparinux (<i>Arixtra</i>) ≤2.5mgSQ qd (prophylaxis)	48 hours*		2 hours
fondaparinux (<i>Arixtra</i>) 5-10mg SQ qd (full dose)	72 hours*		2 hours
dalteparin (<i>Fragmin</i>) 200 U/kg SQ qd; 100 U/kg SQ q12h (full dose)	24 hours*		2 hours
enoxaparin (<i>Lovenox</i>) 1mg/kg SQ bid; 1.5mg/kg SQ qd (full dose)	24 hours*		2 hours
enoxaparin (<i>Lovenox</i>) 30mg SQ bid or 40mg SQ bid (prophylaxis)	12 hours*		2 hours
dalteparin (<i>Framin</i>) 5000 units SQ qd (prophylaxis)	12 hours*		May be given. Wait 6-8 hours after catheter placement before giving next dose.
enoxaparin (<i>Lovenox</i>) 40mg SQ qd (prophylaxis)	12 hours*	2 hours	

DIRECT THROMBIN INHIBITORS

argatroban	when DTI assay < 40 or aPTT < 40	CONTRAINDICATED while catheter in place	2 hours
lepirudin (<i>Refludan</i>)			
bivalirudin (<i>Angiomax</i>)			

ORAL ANTIPLATELET AGENTS

aspirin/NSAIDS	May be given, No time restrictions		
clopidogrel (<i>Plavix</i>)/prasugrel (<i>Effient</i>)	7 days	CONTRAINDICATED while catheter in place	2 hours
ticlopidine (<i>Ticlid</i>)	10-14 days		2 hours

GP IIB/IIIA INHIBITORS

abxycimab (<i>Reopro</i>)	48 hours	CONTRAINDICATED while catheter in place	2 hours
eptifibatide (<i>Integrilin</i>)	8 hours*		2 hours
tirofiban (<i>Aggrastat</i>)	8 hours*		2 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)		