Johns Hopkins Hospital Department of Anesthesiology and Critical Care Medicine Recommendations for Anticoagulation: Neuraxial and Deep Block/Paravertebral/Lumbar Plexus Interventions (2016)

Drug	Common Trade Names	Time between last dose of anticoagulation and catheter	Minimum time to restart anticoagulation after catheter removal
bciximab	Reopro	48 hours	24 hours
Iteplase (catheter clearance)	Activase	No restrictions	No restrictions
pixiban	Eliquis	CrCl>50: 3 days; CrCl 30-50: 4 days	24 hours
rgatroban	Acova	At least 6 hours; check for normal PTT or ACT	2 hours
spirin**	Ecotrin	No restrictions	No restrictions
ivalirudin	Angiomax	At least 6 hours; check for normal PTT or ACT	2 hours
ilostazol	Pletal	No restrictions	No restrictions
ilostazol + Aspirin	Pletal	48 hours	2 hours
lopidogrel 75mg	Plavix	7 days (if 5-7 days, check for normal platelets function with P2Y12 assay)	6 hours (24 if traumatic placement)
lopidogrel 300-600mg	Plavix	7 days	24 hours
abigatran	Pradaxa	CrCl>50: 5 days; CrCl<50: 7 days, Consider checking thrombin time	24 hours
alteparin (Therapeutic) ny dosing > 5,000 Units QD	Fragmin	30 hours, double time for CrCl<30	6 hours (24 hours if traumatic placement)
alteparin (Prophylactic) osing < 5,000 Units QD	Fragmin	15 hours, double time for CrCl<30	4 hours , double time for CrCl<30 (24 hours if traumatic placement)
		hours postoperatively. Therapeutic dosing or BID dos	ing should be started at least 24 hours postoperatively. Epidura
noxaparin (Therapeutic)	Lovenox	24 hours	4 hours (24 hours if traumatic placement)
noxaparin (BID prophylactic) <=60 mg daily)	Lovenox	12-24 hours	4 hours (24 hours if traumatic placement)
noxaparin (Daily Prophylactic)	Lovenox	12 hours	4 hours (24 hours if traumatic placement)
ote: LOW MOLECULAR WEIGHT HEPARIN: atheters should be removed prior to initiation of		hours postoperatively. Therapeutic dosing or BID dos	sing should be started at least 24 hours postoperatively. Epidura
ptifibatide	Integrilin	8 hours	24 hours
ondaparinux 2.5mg	Arixtra	4 days	2 hours
ondaparinux 5, 7.5, 10mg	Arixtra	7 days	24 hours
eparin SQ 5000U BID	Heparin	No restrictions	No restrictions
eparin SQ 5000U TID or greater	Heparin	Unknown risk: Wait 4-6 hours, consider checking PTT	1 hour
eparin IV	Heparin	2-4 hours and PTT < 35	2 hours
ote: HEPARIN: If patient has been on heparin i	for >5 days, check platelet count prior to	any intervention.	
lerbal Medications**		No restrictions	No restrictions
SAIDs**	Advil, Celebrex, Excedrin, Mobic, etc	No restrictions	No restrictions
rasugrel	Effient	7-10 days	24 hours
ivaroxaban	Xarelto	3 days	24 hours
icagrelor	Brilanta	5-7 days	24 hours
irofiban	Aggrastat	8 hours	24 hours
/arfarin	Coumadin	3-5 days and INR < 1.5	Same day

*Restarting anticoagulants with catheter in place is not recommended or has unknown risk, with the exception of aspirin/NSAIDs (no restrictions), bid prophylactic heparin (no restrictions), daily prophylactic enoxaparin and IV heparin (2 hour). Indwelling catheters are not recommended for patients on therapeutic or BID lovenox. Catheter should be removed prior to initiating therapy

**The additive, if not synergistic, effect of multiple hemostasis-altering medications cannot be overstated and clinical judgement is advised when encountering this situation.