

ANTICOAGULATION GUIDELINES FOR NEURAXIAL OR PERIPHERAL NERVE PROCEDURES Guidelines to Prevent Spinal Hematoma following

Guidelines to Prevent Spinal Hematoma following Epidural/Intrathecal/Spinal Procedures and Perineural Hematoma following Peripheral Nerve Procedures

ATTENTION! WHEN CAN YOU SAFELY DO NEURAXIAL/PERIPHERAL NERVE PROCEDURES OR GIVE ANTICOAGULANTS? Neuraxial routes include epidural and intrathecal infusions, implanted intrathecal pumps, and spinal injections. Peripheral routes include all peripheral nerve and plexus infusions. NOTE: Bloody tap/procedure? Anesthesia to call Pain Service **PRIOR TO** WHILE AFTER **NEURAXIAL/NERVE NEURAXIAL/NERVE NEURAXIAL/NERVE PROCEDURE PROCEDURE CATHETER IN PLACE** Minimum time between last dose of Restrictions on use of anticoagulants Minimum time between **MEDICATION** anticoagulant and spinal injection OR while neuraxial/nerve catheters are neuraxial/nerve catheter neuraxial/nerve catheter placement in place and prior to their removal removal OR spinal/nerve injection and next anticoagulant dose ANTICOAGULANTS FOR VTE PROPHYLAXIS May be given; no time restrictions for catheter placement/removal or spinal injections heparin unfractionated 5000 units Q8H or Q12H **Do NOT call Pain Service CONTRAINDICATED** while catheter in place: heparin unfractionated 8 hrs 4 hrs may NOT be given unless approved 7500 units SQ Q8H by Pain Service Attending May be given dalteparin (Fragmin) BUT: 5000 units SQ QDay 12 hrs Must wait 8 hrs after catheter enoxaparin (Lovenox) (longer in renal impairment) 4 hrs **PLACEMENT** before giving dose •Must wait 12 hrs after last dose before 40mg SQ QDay **REMOVING catheter** enoxaparin (Lovenox) 12 hrs **CONTRAINDICATED** while catheter in place: 30mg SQ Q12H or (longer in renal impairment) may NOT be given unless approved 40mg SQ Q12H 4 hrs by Pain Service Attending fondaparinux (Arixtra) 48 hrs (longer in renal impairment) 2.5mg SQ QDay May be given BUT: rivaroxaban (Xarelto) 24 hrs 6 hrs Must wait 8 hrs after catheter (per manufacturer 10mg po QDay (longer in renal impairment) **PLACEMENT before giving dose** •Must wait 12 hrs after last dose before recommendations) **REMOVING catheter** AGENTS USED FOR FULL SYSTEMIC ANTICOAGULATION 72 hrs (longer in renal impairment) apixaban (Eliquis) 72 hrs (longer in renal impairment) dabigatran (Pradaxa) 24 hrs dalteparin (Fragmin) (longer in renal impairment) 200 Units/kg SQ QDay or 100 Units/kg SQ Q12H CONTRAINDICATED 24 hrs enoxaparin (Lovenox) while catheter in place: 4 hrs (longer in renal impairment) 1.0 - 1.5mg/kg SQ QDay or may NOT be given unless 1mg/kg SQ Q12H approved by 72 hrs fondaparinux (Arixtra) **Pain Service Attending** (longer in renal impairment) 5-10mg SQ qday when aPTT < 40 sec heparin unfractionated IV infusion or full dose SQ 24 hrs (longer in renal impairment) rivaroxaban (Xarelto) 6 hrs (per manufacturer 15-20mg po qday recommendations) when INR < 1.5 warfarin (Coumadin) 4 hrs

Use with UWMC Nursing Epidural Policy and Procedure and Acute Pain Service Guidelines for Neuraxial/Peripheral Nerve Catheters



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·	PRIOR TO	WHILE	AFTER	
	NEURAXIAL/NERVE	NEURAXIAL/NERVE	NEURAXIAL/NERVE	
	PROCEDURE	CATHETER IN PLACE	PROCEDURE	
MEDICATION	Minimum time between last dose of	Restrictions on use of	Minimum time between	
WEDICATION	anticoagulant and spinal injection OR	anticoagulants while	neuraxial/nerve catheter	
	neuraxial/nerve catheter placement	neuraxial/nerve catheters are in	removal OR spinal/nerve	
		place and prior to their removal	injection and next	
DIRECT TUROMRIN INI	HIBITORS, INJECTABLE		anticoagulant dose	
	IIIDI OKO, IIVJEGI ABLE	CONTRAINDICATED		
argatroban IV continuous infusion		while catheter in place:		
	when DTI assay < 40	may NOT be given unless approved		
bivalirudin (Angiomax)	or aPTT < 40 sec	by Pain Service Attending	4 hrs	
IV continuous infusion				
ANTIPLATELET AGENTS				
	May be given; no time restrictions for catheter placement or removal			
Aspirin or NSAIDS	Do NOT call Pain Service			
abciximab (Reopro)	48 hrs			
aspirin/dipyridamole	7 days			
(Aggrenox)		CONTRAINDICATED		
clopidogrel (Plavix)	7 days	while catheter in place:		
eptifibatide (Integrelin)	8 hrs	may NOT be given unless	4 hrs	
	(longer in renal impairment)	approved by Pain Service		
prasugrel (Effient)	7 days	Attending		
ticagrelor (Brilinta)	7 days			
tirofiban (Aggrastat)	8 hrs			
	(longer in renal impairment)			
THROMBOLYTIC AGENTS				
alteplase (TPA) May be given; no time restrictions for catheter placement or removal				
1mg dose for catheter	(Maximum dose 4mg/24 hours)			
clearance				
alteplase (TPA)		CONTRAINDICATED		
full dose for stroke, MI, etc	10 days	while catheter in place: may NOT be given unless approved	10 days	
		by Pain Service Attending		