



ROI IR Anticoagulation Recommendations - Updated 7/2021

Low Risk (PT/INR, platelets, hemoglobin not routinely recommended. INR less than equal to 2-3. Platelets transfuse if less than 20)	High Risk (PT/INR, platelets, hemoglobin routinely recommended. INR corrected to range of equal to less than 1.5-1.8. transfuse platelets if less than 50)
<ul style="list-style-type: none">• Catheter/drain exchange• Diagnostic venogram and select venous interventions• Dialysis access intervention• IVC filter placement and removal• Non-tunneled venous catheter placement/removal• Tunneled venous catheter placement and removal• PICC placement• Paracentesis• Thoracentesis• Superficial drainage or biopsy (palpable lesion, lymph node, soft tissue, breast, thyroid, superficial bone, bone marrow)• Transjugular liver biopsy• Bone marrow biopsy• Facet joint injections and medial branch nerve blocks (thoracic and lumbar)• Peripheral nerve blocks• Joint/MSK injections• Sacroiliac joint injection• Sacral lateral branch blocks• Trigger point injections• Chest tube placement	<ul style="list-style-type: none">• Ablation (solid organs, bone, soft tissue, lung)• Biliary intervention (e.g. new biliary tube placement, cholecystostomy tube placement)• Catheter directed thrombolysis• Deep abscess drainage (lung, parenchyma, abdominal, pelvic, retroperitoneal)• Deep non-organ and organ biopsy (spine, soft issue in intra abdominal, retroperitoneal, pelvic compartments, lung)• Diagnostic arteriography and peripheral arterial interventions (sheath less than 6 French)• Embolotherapy (uterine fibroid embolization/prostatic artery embolization, TACE, TARE)• Gastrostomy, gastrojejunostomy placement• IVC filter removal (complex)• Portal vein intervention• Solid organ biopsy• Suprapubic catheter placement• Transjugular Intrahepatic Portosystemic Shunt (TIPS)• Tunneled drainage catheter placement (e.g. pleurex)• Port Placement and removal• Urinary tract intervention (ureteral dilation, NPCN placement, stone removal)• Venous intervention (intrathoracic)• Fallopian tube recanalization• Spine procedures with risk of spinal or epidural hematoma (kyphoplasty, vertebroplasty, epidural injection, facet block cervical spine),• Disc aspiration

Anticoagulants		Recommendation			
		Low Risk		High risk	
		Hold for:	Can restart:	Hold for:	Can restart:
Warfarin		do not hold Target INR <=3. Bridge for high thrombosis risk cases	same day reinitiation for bridged patients	5 days until INR <=1.8. Consider bridging for high thrombosis risk cases	24 hrs. high risk thrombosis can be bridged with LMWH
Heparin	IV gtt	do not hold	N/A	4-6 hrs	6-8 hrs
	prophy UFH subQ	do not hold	N/A	6 hrs	6-8 hrs
	treatment LMWH (lovenox)	do not hold	N/A	2 dose or 24 hrs	12 hrs
	prophy LMWH (lovenox)	do not hold	N/A	1 dose	12 hrs
	Dalteparin (fragmin)	do not hold	N/A	1 dose	12 hrs
Aspirin	low dose (81 mg)	do not hold		5 days	24 hrs
	high dose/with dipyridamole	do not hold		5 days	24 hrs
Cilostazol (pletal)		do not hold		do not hold	

	Low Risk		High risk	
NSAIDs	Hold for:	Can restart:	Hold for:	Can restart:
Short acting (half life 2-6 hrs) -Ibuprofen, diclofenac, ketoprofen, indomethacin	do not hold		do not hold	N/A
Intermediate (half life 7-15 hrs) -naproxen, sulindac, diflunisal, celecoxib	do not hold		do not hold	N/A
Long acting (half life >20 hrs) - meloxicam, nabumetone, piroxicam	do not hold		do not hold	N/A
IIb/IIIa inhibitors	Hold for:	Can restart:	Hold for:	Can restart:
Short acting (IV gtt) -Eptifibatide (integrilin), Tirofiban (agrestat)	4-8 hrs	ASAP	4-8 hrs	ASAP
Long acting -abciximab (ReoPro)	24 hrs	ASAP	24 hrs	ASAP

	Low Risk		High risk	
Direct Thrombin Inhibitors	Hold for:	Can restart:	Hold for:	Can restart:
Argatroban (Acova)	do not hold	N/A	2-4 hours (check aPTT)	4-6 hrs
Bivalirudin (angiomax)	do not hold	N/A	2-4 hours (check aPTT)	4-6 hrs
Desirudin (Iprivask)	do not hold		4 hrs	ASAP
Dabigatran (pradaxa)	do not hold		4 doses (GFR>=50) 6-8 doses (GFR<50)	24hrs
Betrixaban (Bevyxxa)	do not hold		Withhold for 3 doses can reverse with andexanet alfa if emergent	24 hrs
Direct Factor Xa inhibitor	Hold for:	Can restart:	Hold for:	Can restart:
Rivaroxaban (Xarelto)	do not hold		2 doses (GFR>=30) 3 doses (GFR<30) can reverse with andexanet alfa if emergent	24 hrs
Apixaban (Eliquis)	do not hold	N/A	4 doses (GFR >=50) 6 doses (GFR <30-35) can reverse with andexanet alfa if emergent	24 hrs
Edoxaban (Savaysa)	do not hold		2 doses can reverse with andexanet alfa if emergent	24 hrs
Indirect Factor Xa inhibitor	Hold for:	Can restart:	Hold for:	Can restart:
Fondaparinux (Arixtra)	do not hold	N/A	2-3 days (eGFR > 50) 3-5 days (eGFR < 50)	24hrs

	Low Risk		High risk	
Thienopyridines	Hold for:	Can restart:	Hold for:	Can restart:
Clopidogrel (Plavix)	do not hold		5 days	6 hrs if 75mg 24 hrs if 300-600mg
Prasugrel (Effient)	do not hold		7 days	24 hrs
Ticlopidine (Ticlid)	do not hold		7 days	24 hrs
Ticagrelor (Brilinta)	do not hold		5 days	24 hrs