Category 1: Low risk of bleeding, eaisly detected and controllable	Category 2: Procedures with moderate risk of bleeding	Category 3: Procedures with significant bleeding risk, difficult ot detect or control
Procedures	Procedures	Procedures
Vascular	Vascular	Vascular
Dialysis fistulogram w/wo Intervention	Angiography, arterial intervention with access size up to 7 F	TIPS
Venography	Venous interventions - non dialysis	
Central Line Removal - nontunelled	Chemoembolization	Non Vascular
IVC filter placement	Uterine Fibroid Embolizaton	Renal biopsy
PICC or nontunelled central line	Tunneled central venous catheter placement or removal	Biliary interventions (new tract)
Non Vascular	Subcutaneous port placement or removal	Transabdominal liver biopsy (core needle)
Catheter and tube exchange (gastrostomy, gastrojejunostomy, jejunostomy, jejunostomy, biliary, nephrosotmy,		Percutaneous cholecystostomy
Joint injections, arthrograms	Non Vascular	Nephrostomy tube placement
Paracentesis	Chest tube, abscess drainage (non-superficial) or deep soft tissue biopsy	Cryoablation
Superficial abscess drainage	Lung biopsy	Radiofrequency ablation
Superficial aspiration and biopsy: thyroid, superficial node	Gastrostomy and Gastrojejunostomy tube: initial placement	
Transjugular liver biopsy	Spine procedures (vertebroplasty, kyphoplasty, lumbar puncture, epidural injection, facet block, myelogram)	
Thoracentesis		
Pre procedure lab testing	Pre procedure lab testing	Pre procedure lab testing
INR: thoracentesis and patients on warfarin or known or suspected liver disease. Other procedures no INR	INR	INR
aPTT: thoracentesis and patients on IV heparin or known or suspected liver disease. Other procedures no PTT. INR/PTT for 1st paracentesis then q 90 days and for first thoracentesis then q 30 days	aPTT	aPTT
Platelet/HCT: not routinely recommended	Platelet count	Platelet count
		Hematocrit
Management	Management	Management
INR < 2.0 (for those who get labs)	INR: correct to < 1.5 except NIR cases	INR: correct to < 1.5
aPTT: < 2 X control (for those who get labs)	aPTT: stop or reverst heparin for values . 1.5 X control	aPTT: stop or reverst heparin for values . 1.5 X control
Platelets: do not check	Platelets: tranfussion recommended for counts <50,000/µL	Platelets: tranfuse for counts <50,000/μL
Clopidogrel: do not withhold	Clopidogrel: withhold for 5 days prior to procedure except NIR	Clopidogrel: withhold for 5 days prior to procedure
ASA: do not withhold	ASA withhold for 5 days except NIR cases	ASA withhold for 5 days
LMWH (therapeutic dose): withhold one dose before	LMWH (therapeutic dose): withhold one dose before	LMWH (therapeutic dose): withhold for 24 hours or up to two doses