

GUIDELINES FOR COAGULATION FOR INTERVENTIONAL PROCEDURES

<u>CATEGORY 1</u>	<u>CATEGORY 2</u>	<u>CATEGORY 3</u>
<p><i>Abscess drain check (Don't hold blood thinners)</i></p> <p><i>Bone marrow biopsy (Don't hold blood thinners)</i></p> <p><i>Catheter exchange (biliary, nephrostomy, abscess drainage catheter, G, J, G-J tubes)</i></p> <p><i>Central line removal (includes tunneled dialysis cath)</i></p> <p><i>Chest tube (emergent only)</i></p> <p><i>Fistulagram</i></p> <p><i>IVC filter placement and removal</i></p> <p><i>Joint aspiration/injection</i></p> <p><i>Nephrostogram (Don't hold blood thinners)</i></p> <p><i>Non-tunneled venous catheter placement</i></p> <p><i>Paracentesis (Only need to hold Coumadin)</i></p> <p><i>Pleurx catheter removal</i></p> <p><i>PICC (INR \leq 3.0 for cath lab) (Don't hold blood thinners)</i></p> <p><i>Superficial aspiration, drainage, and/or biopsy (i.e. breast)</i></p> <p><i>Thoracentesis (Only need to hold Coumadin)</i></p> <p><i>Venogram (Don't hold blood thinners)</i></p>	<p><i>Abscess drainage</i></p> <p><i>Angiogram (arterial intervention with access size up to 7-Fr)</i></p> <p><i>Biopsy (except superficial, lung, liver, renal)</i></p> <p><i>Chemo/radioembolization</i></p> <p><i>Chest tube (elective)</i></p> <p><i>Embolization (including uterine fibroid)</i></p> <p><i>Foreign body retrieval</i></p> <p><i>Infusaport placement/removal</i></p> <p><i>PEG tube placement (new)</i></p> <p><i>Percutaneous cholecystostomy</i></p> <p><i>Pleurx catheter (abd and pleural)</i></p> <p><i>Spinal procedures (epidural, myelogram, LP, kypho/vertebroplasty, facet block)</i></p> <p><i>Tunneled venous catheter (PICC, dialysis)</i></p> <p><i>Venous interventions (includes ELVS)</i></p>	<p><i>Antegrade pyelogram with wire placement</i></p> <p><i>Biliary interventions (new)</i></p> <p><i>Nephrostomy tube placement (new)</i></p> <p><i>Liver biopsy</i></p> <p><i>Lung biopsy</i></p> <p><i>Radiofrequency ablation</i></p> <p><i>Renal biopsy</i></p>
<u>MEDICATIONS</u>	<u>MEDICATIONS</u>	<u>MEDICATIONS</u>
<i>Arixtra (fondaparinux): do not hold</i>	hold for 2-5 days	holdfor 2-5 days
<i>ASA: do not hold</i>	hold for 5 days	hold for 5 days
<i>Coumadin: hold for 5 days</i>	hold for 5 days	hold for 5 days
<i>Effient (prasugrel): do not hold</i>	hold for 5 days	hold for 5 days
<i>Eliquis (apixaban): hold for 2 days (4 doses)</i>	hold for 2 days (4 doses)	hold for 3 days (6 doses)
<i>Pradaxa: hold for 2 days</i>	hold for 4 days	hold for 5 days
<i>Plavix (clopidogrel): hold for 5 days</i>	hold for 5 days	hold for 5 days
<i>Ticlid (ticlopidine): do not hold</i>	hold for 7 days	hold for 7 days
<i>Xeralto (rivaroxaban): hold for 2 days</i>	hold for 2 days	hold for 4 days
<i>IV Heparin: hold 4 hrs/ SQ Heparin: hold 12 hrs</i>	hold for 4 hrs/ hold for 12 hrs	hold for 4 hrs/ hold for 12 hrs
<i>LMWH (Lovenox): hold for 12 hours</i>	hold for 24 hours	hold for 24 hours
<i>Ibuprofen/diclofenac/ketoprofen/Indomethacin: do not hold</i>	hold day of procedure or at least 6 hours	hold for 24 hours
<i>Meloxicam/nabumetone/piroxicam: do not hold</i>	do not hold	hold for 10 days
<i>Naproxan/sulindac/diflunisal/celecoxib: do not hold</i>	do not hold	hold for 2-3 days
<u>LABS NEEDED</u>	<u>LABS NEEDED</u>	<u>LABS NEEDED</u>
<i>INR: needed for pt's receiving warfarin or known/suspected liver disease</i>	same	same
<i>aPTT: needed for pt's receiving IV heparin</i>	same	same
<i>CBC: within past 30 days...needed only for pt's that will have a foreign body placed (unless have hx of low platlets)</i>	recommended...within past 30 days	recommended...within past 30 days
<i>Platelet: not routinely recommended</i>	recommended	recommended
<i>Hematocrit: not routinely recommended</i>	same	same
<u>MANAGEMENT</u>		
<i>INR: \leq 2.0</i>	\leq 1.5	\leq 1.5
<i>PTT: no consensus</i>	same	value to be \leq 1.5x control
<i>Platelets: \geq 50,000</i>	same	same

CATEGORY 1

NEED TO BE NPO AND BE HERE AN HOUR PRIOR TO PROCEDURE:

Bone marrow biopsy and aspiration---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPBONEMAR
Catheter change/exchange (biliary, nephrostomy, abscess drain, G, GJ, J tubes)	SPDRAINREP
Chest tube placement (emergent only)	SPCHESTTUB
Fistulagram	SPFISTUL
IVC filter placement and removal	SPIVCFILTR
Renal cyst apiration/sclerosis	SPASPRENAL

DON'T NEED TO BE FASTING AND BE HERE 15 MINUTES PRIOR TO PROCEDURE:

Central line removal (tunneled dialysis catheter, tunneled PICC)	SPDIALREMO
G, GJ or J tube change	SPTUBECHG
Interventional Procedure	SPPROCED
Joint aspiration/injection	SPROCINJ
Pleurx catheter removal	SPPLEUREM
Superficial biopsy/aspiration	SPMINORBX
Thyroid biopsy	SPBXUSTHY
Abscess drain check---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPDRAIN
ELVS screen---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPELVSSCRN
Nephrostogram---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPNEPHROGM
Paracentesis---ONLY NEED TO HOLD COUMADIN	SPPARACE
PICC placement---DON'T NEED TO HOLD ANY BLOOD THINNERS (INR \leq 3.0 for cath lab)	SPPICC
Radiology Visit---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPRAD
Thoracentesis---ONLY NEED TO HOLD COUMADIN	SPTHORA
Venogram---DON'T NEED TO HOLD ANY BLOOD THINNERS	SPVENO

MEDICATIONS THAT DON'T NEED TO BE HELD:

Arixtra (fondarinux)
 ASA
 Effient (prasugrel)
 Ibuprofen/diclofenac/ketoprofen/indomethacin
 Meloxicam/nabumetone/piroxicam
 Naproxan/sulindac/diflunisal/celecoxib
 Ticlid (ticlopidine)

MEDICATIONS THAT NEED TO BE HELD:

Coumadin (warfarin)...hold for 5 days
 Eliquis (apixaban)...hold for 2 days (4 doses)
 Heparin IV...hold for 4 hours
 Heparin SQ...hold for 12 hours
 Lovenox...hold for 24 hours
 Plavix (clopidogrel)...hold for 5 days
 Pradaxa...hold for 2 days
 Xeralto (rivaroxaban)...hold for 2 days

CATEGORY 2

NEED TO BE NPO AND BE HERE AN HOUR PRIOR TO PROCEDURE:

Abscess drain placement	SPABSCD
Angioplasty	SPPTA
Arteriogram upper extremity	SPEXTUART
Arteriogram with runoff	SPEXTULOW
Bone/disk biopsy	SPDISCBX
Carotid arteriogram	SPCRTART
Celiac Plexus Block	SPCELIACB
Cerebral arteriogram	SPCEREBART
Chest tube placement (elective)	SPCHESTTUB
Discogram	SPDISCO
Embolization (including uterine fibroid embolization)	SPEMBOLI
Femoral Artery Pseudo Aneurysm Embolization	SPEMBFEMAR
Foreign Body Retrieval	SPFB
G, GJ, J tube placement (new)	SPGJTUBE
Infusaport placement and removal	SPINFUSPT
Lumbar Puncture/Myelogram	SPCHEMOLP
Mesenteric arteriogram	SPMESENART
Percutaneous cholecystostomy placement/transhepatic cholangiogram	SPPTC
Pleurx Catheter Placement (abdominal and pleural)	SPPLEURX
Pulmonary arteriogram	SPPULMART
Sclerotherapy	SPSCLEROTH
Trellis (Thrombolysis)	SPTHROMBO
Tunneled PICC Placement	SPTUNNEL
Tunneled Dialysis Catheter Placement....NEED TO BE HERE 2 HOURS EARLY	SPDIALYSIS
Venacure (ELVS)	SPROCVENA
Vertebroplasty/Kyphoplasty	SPVERT
Y-90 Chemoembolization	SPY-90CHE

DO NOT NEED TO BE FASTING AND BE HERE 15 MINUTES PRIOR TO PROCEDURE:

Epidural steroid injection	SPROCINJ
Facet block	SPFACETBLK

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 Coumadin (warfarin)...hold for 5 days
 Effient (prasugrel)...hold for 5 days
 Eliquis (apixaban)...hold for 2 days (4 doses)
 Heparin SQ...hold for 12 hours
 Ibuprofen/diclofenac/ketoprofen/indomethacin...hold day of procedure or at least 6 hours
 Lovenox...hold for 24 hours
 Plavix (clopidogrel)...hold for 5 days
 Pradaxa...hold for 4 days
 Ticlid (ticlopidine)...hold for 7 days
 Xeralto (rivaroxaban)...hold for 2 days

MEDICATIONS THAT DON'T NEED TO BE HELD:

Naproxan/sulindac/diflunisal/celecoxib/Meloxicam/nabumetone/piroxicam

CATEGORY 3

NEED TO BE NPO AND BE HERE AN HOUR PRIOR TO PROCEDURE:

Antegrade pyelogram with wire placement	SPPYELOGRA
Biliary (bile ducts or gallbladder) interventions	SPCHOLE
Hepatic artery infusion catheter placement	SPINFCATH
Liver biopsy	SPROCBX
Lung biopsy	SPROCBX
Percutaneous nephrostomy tube placement (new)	SPNEPHTUBE
Radiofrequency ablation	SPRADIOABL
Renal arteriogram	SPRENALART
Renal (kidney) biopsy	SPROCBX

MEDICATIONS THAT NEED TO BE HELD:

Arixtra (fondaparinux)...hold for 5 days
ASA...hold for 5 days
Coumadin (warfarin)...hold for 5 days
Effient (prasugrel)...hold for 5 days
Eliquis (apixaban)...hold for 3 days (6 doses)
Heparin SQ...hold for 12 hours
Ibuprofen/diclofenac/ketoprofen/indomethacin...hold for 24 hours
Lovenox...hold for 24 hours
Meloxicam/nabumetone/piroxicam...hold for 10 days
Naproxan/sulindac/diflunisal/celecoxib...hold for 3 days
Plavix (clopidogrel)...hold for 5 days
Pradaxa...hold for 5 days
Ticlid (ticlopidine)...hold for 7 days
Xeralto (rivaroxaban)...hold for 4 days