

## **Liver Biopsy, Aspiration, Drainage & Sclerosis**

- **Includes:** medical liver biopsy; liver lesion biopsy; liver cyst aspiration & sclerosis; liver abscess aspiration & drainage
- **Rads that do procedure:** Agrait (MA), Byra (BY), Carter (CA), Cohen (DC), Combs (JC), Edwards (JE), Howard (JH), Parsons (CP), Rezaei (AR), Roth (NR), Sherard (DS), Wood (CW)
- **Need imaging/radiologist review:** yes
- **Need H&P:** yes updated within 30 days of procedure date (must include heart & lungs exam)
- **Need to hold blood thinners:** yes (per chart on next page)
- **Need to hold other meds:** no
- **Need to be NPO:** yes (2 hrs for clear liquids, 6 hrs for light meals & dairy products, 8 hrs for fatty meals)
- **Need a driver:** yes
- **Need bed in Short Stay / PACU:** yes
- **Arrival time:** 2 hrs prior to appointment
- **Need an IV:** yes
- **Need blood work:** CBC w/o differential & PT/INR within 30 days of procedure date (usually done day of procedure)  
BMP the day of procedure (only in patients with renal disease)
- **Receive moderate sedation:** local anesthesia +/- moderate sedation (depending on Rad)
- **Stay after procedure:** 2-4 hrs after procedure
- Order needs to specify lesion location (if not a medical biopsy).
- If for diagnostic aspiration/drainage, order needs to specify what fluid labs are needed.

	<b>Higher Risk Procedures</b>	
	<b>Hold</b>	<b>Resume</b>
<b>Aspirin</b> (81 mg & 325 mg)	3-5 days	24 hrs
<b>Short-Acting NSAIDs</b> (ibu/ketoprofen, diclofenac, indomethacin)	24 hrs	immediately
<b>Intermediate-Acting NSAIDs</b> (naproxen, celecoxib, sulindac, diflunisal)	48 hrs	immediately
<b>Long-Acting NSAIDs</b> (meloxicam, piroxicam, nabumetone)	10 days	immediately
<b>Heparin</b>	4-6 hrs (IV) 6 hrs (SQ)	6-8 hrs
<b>Enoxaparin</b> (Lovenox)	12 hrs (30-40 mg dose) 24 hrs (higher doses)	12 hrs
<b>Dalteparin</b> (Fragmin)	24 hrs	12 hrs
<b>Warfarin</b> (Coumadin)	hold until INR $\leq$ 1.8*	24 hrs*
<b>Clopidogrel</b> (Plavix)	5 days	6 hrs (75 mg dose) 24 hrs (higher doses)
<b>Ticagrelor</b> (Brilinta)	5 days	24 hrs
<b>Prasugrel</b> (Effient)	7 days	24 hrs
<b>Aspirin/Dipyridamole</b> (Aggrenox)	3-5 days	24 hrs
<b>Cilostazol</b> (Pletal)	no hold	immediately
<b>Fondaparinux</b> (Arixtra)	2-3 days (GFR $\geq$ 50) 3-5 days (GFR <50)	24 hrs
<b>Argatroban</b> (Acova)	2-4 hrs	4-6 hrs
<b>Bivalirudin</b> (Angiomax)	2-4 hrs	4-6 hrs
<b>Apixaban</b> (Eliquis)	48 hrs (GFR $\geq$ 50) 72 hrs (GFR <50)	24 hrs
<b>Dabigatran</b> (Pradaxa)	48 hrs (GFR $\geq$ 50) 72-96 hrs (GFR <50)	24 hrs
<b>Rivaroxaban</b> (Xarelto)	48 hrs (GFR $\geq$ 30) 72 hrs (GFR <30)	24 hrs
<b>Betrixaban</b> (Bevyxxa)	72 hrs	24 hrs
<b>Edoxaban</b> (Savaysa)	48 hrs	24 hrs
<b>Ticlopidine</b> (Ticlid)	7 days	24 hrs
Desirudin (Iprivask)	4 hrs	1 hr
<b>Abciximab</b> (ReoPro)	24 hrs	per Cardiology
<b>Eptifibatide</b> (Integrilin)	4-8 hrs	per Cardiology
<b>Tirofiban</b> (Aggrastat)	4-8 hrs	per Cardiology