Procedure	Level	Nonoperative/Preoperative	Intraoperative	Postoperative
Paracentesis	Limited Participaton Demonstrates basic understanding of how the tools operate. Has very basic skills. Framework: What a learner directly out of medical school should know. The attending shows and tell during the procedure.	-Understands the pathophysiology, differential diagnosis for the causes of ascites, and the rationale for drainage of ascitesPerforms a history and physical and lab evaluation independently -Aware of SIR guidelines for preprocedural labs and medication holds	-assists with preparation of sterile procedural field -maintains a sterile field -Be able to identify free fluid vs loculated fluid and distinguish these from the bladder, solid organs (liver/spleen) as well as the bowel -Be able to identify inferior epigastric arteries and lateral circumflex iliac artery branches on ultrasound	-understands what labs should be sent (gram stain, cell count with differential, culture and sensitivity, total protein, albumin) -aware of what complications to look out for including hypotension and tachycardia due to bleeding vs due to paracentesis induced circulatory dysfunction but needs attending direction to manage -In the setting of complication, not familiar with next steps
	manner Framework:	-able to review preoperative imaging (US/CT/MRI) to identify ideal pocket for aspiration -demonstrates an understanding of the indications, contraindications, alternatives and potential complications -communicates facts of procedure and discusses potential complications or alternatives for straghtforward cases but may need direction for more complicated cases -aware of how much fluid needs to be removed & if it is therapeutic vs diagnostic	-able to prepare a sterile field and position the patient appropriately only needing minimal direction from the attending -familiar with the tools to drain ascites -identifies a safe approach on intraprocedural imaging, needing only minimal attending direction -able to see the needle throughout the entirety of the procedure with attending guidance -able to adjust the US settings to optimize needle and ascites imaging -effectively instills anesthetic into the dermis as well as on the peritoneum to minimize pain, with minimal attending direction	-able to manage hypotension with fluid or blood resusicitiation as needed, with minimal attending guidance -appropriate dosing and administration of albumin in the setting of high SAAG ascites.
	3: Indirect Supervision Can do paracentesis in a large pocket but may need guidance in loculated/complex/small pocket of ascites Framework: The learner can perform straightforward paracenteses. The attending gives passive help. This passive help may be given with the attending scrubbed in for more complex paracenteses or during a check-in for more routine paracentesis.	-independently review imaging to identify ideal pocket -independently communicates facts of procedure, potential complications/alternatives for simple and complex cases		-able to guide a junior resident in performing postoperative management

4: Practice Ready	-able to talk to a hepatologist, medical	-able to drain small pockets of ascites	-counsel patients on causes of ascites and
	oncologist , surgeon about the rationale	near vital structures such as the liver,	offers treatment options (ie: tunneled
Can perform easy and complex	for ascites management	bladder, bowel and spleen independently	peritoneal drain for malignant ascites, TIPS,
paracenteses and manage post	-understand the management of high	-facile in finding and visualizing the	peritoneo-venous shunt, maximal diuretic
paracentesis hemodynamics	SAAG ascites with diuretics	needle the entire procedure	therapy)
	(lasix/spironolactone)		-able to diagnose and manage SBP
Framework:	-understands the differential for bloody		
The learner can perform all	ascites (cancer, TB, or iatrogenic etc)		
straightforward and complex			
paracenteses and can manage post-			
paracentesis complications			
independently			
The attending is available as needed			
but is not routinely needed			