

Name of Fellow:

Date:

4. **EPA Title:** Manage liver diseases

Detailed Description: Gastroenterologists diagnose and manage the broad spectrum of acute and chronic liver problems encountered in a typical gastroenterology practice. This includes an understanding of liver disease in general, with an ability to recognize, diagnose and treat routinely seen acute and chronic liver diseases. Separate EPAs cover the management of cirrhosis and its complications, nutritional aspects of liver disease and endoscopic management of variceal bleeding.

Knowledge	<ul style="list-style-type: none">• Describe the anatomy, physiology, pharmacology, histology and molecular biology related to the liver• Describe the pathophysiological mechanisms of liver injury• Interpret abnormal liver chemistries• List the indications, contraindications, limitations, complications and techniques of liver biopsy and interpret the results• Interpret genetic markers and apply them in the management of liver disease• List options for treatment of liver diseases encountered in a typical gastroenterology practice• Recognize liver disorders associated with pregnancy• Summarize the indications and limitations of liver imaging modalities, and be able to interpret the results of CT, MRI, MRCP, hepatic angiography and ultrasound (including Doppler evaluation of vasculature)
Skills	<ul style="list-style-type: none">• Obtain a relevant history and perform a focused physical examination in patients with acute and chronic liver disease and develop a comprehensive differential diagnosis• Order appropriate labs and studies to assess patients with acute and chronic liver disease• Counsel patients about lifestyle modifications relevant to liver disease (alcohol, drugs, diet)• Diagnose and manage patients with liver diseases encountered in a typical gastroenterology practice including: acute infectious hepatitis, acute liver injury and failure, chronic infectious hepatitis, alcoholic liver disease, nonalcoholic fatty liver disease, Wilson's disease, primary biliary cirrhosis, primary sclerosing cholangitis, autoimmune hepatitis, hemochromatosis, alpha-1 antitrypsin deficiency, vascular liver disease, cystic diseases of the liver• Appropriately refer patients with complex liver disease to a hepatologist• Identify patients at risk of complications of liver disease including progression to advanced stages• Assess preoperative risk in patients with liver disease• Provide efficient, cost-effective consultative care with timely feedback to referring providers

Attitudes	<ul style="list-style-type: none"> • Incorporate evolving management guidelines in the care of patients with liver disease • Demonstrate cultural and socioeconomic sensitivity to devising individualized management plans • Develop an awareness of the stigma related to liver disease, including the stigma associated with alcohol and drug-related causes.
Check ACGME competencies applicable to EPA	
Patient Care (PC)	<input checked="" type="checkbox"/>
Medical Knowledge (MK)	<input checked="" type="checkbox"/>
Systems-Based Practice (SBP)	<input type="checkbox"/>
Practice-Based Learning & Improvement (PBLI)	<input checked="" type="checkbox"/>
Professionalism (PROF)	<input checked="" type="checkbox"/>
Interpersonal & Communication Skills (ICS)	<input type="checkbox"/>
What subcompetencies are needed to achieve mastery?	Approximate Time Frame Trainee Should Achieve Stage
Patient Care (PC): <ul style="list-style-type: none"> • Gathers and synthesizes essential and accurate information to define each patient's clinical problem(s) (PC1) 	
<ul style="list-style-type: none"> • Develops and achieves comprehensive management plan for each patient (PC2) 	
Medical Knowledge (MK): <ul style="list-style-type: none"> • Possesses Clinical knowledge (MK1) 	
<ul style="list-style-type: none"> • Knowledge of diagnostic testing and procedures (MK2) 	
Systems-Based Practice (SBP): <ul style="list-style-type: none"> • • 	
Practice-Based Learning & Improvement (PBLI): <ul style="list-style-type: none"> • Monitors practice with a goal for improvement (PBLI1) 	
<ul style="list-style-type: none"> • Learns and improves at the point of care (PBLI4) 	
Professionalism (PROF): <ul style="list-style-type: none"> • Has professional and respectful interactions with patients, caregivers and members of the interprofessional team (e.g. peers, consultants, nursing, ancillary professionals, and support personnel) (PROF1) 	
<ul style="list-style-type: none"> • Responds to each patient's unique characteristics and needs (PROF3) 	
Interpersonal & Communication Skills (ICS): <ul style="list-style-type: none"> • • 	
Stage of training at which supervision level 4 is expected to be reached:	

Potential information sources/assessments to gauge progress

- Chart stimulated recall
- Chart audits
- Direct observations
- Standardized patient
- In-training examination
- 360 Global Rating
- Patient Survey
- Simulation
- Portfolios
- Other

Basis for formal entrustment decision by the Clinical Competency Committee:

- Program director
- Faculty
- Other

Implications of entrustment for the trainee: Entrustment allows the fellow to independently perform consultation for patients with acute and chronic liver diseases in the inpatient and outpatient setting.