

Curriculum Content Report – Liver Disease
(GI A2b, GI A3b, GI A3c, GI B1a1c, GI B1a2b, GI B1b1, GI B2b13, GI B6, GI B11c)
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Year 1	
Course	Content
Medical Human Gross Anatomy and Embryology	Describe the formation of the liver and its function during fetal life Hepatocyte nuclear transcription factors: once established the liver serves as an hematopoietic organ during most of fetal life Liver and biliary tract anatomy Cholelithiasis Portal hypertension
Cellular & Molecular Medicine	Metabolism of Dietary Lipids bile acids bile, fat digestion cholestasis Enterohepatic circulation cholesterol transport Alcohol Metabolism alcohol dehydrogenase fatty liver disease Cholesterol and Lipoprotein Metabolism
Doctoring I	Case Based learning hepatitis case Introduction to physical exam – liver examination
Cell & Tissue Biology	Liver structure and function
Physiology	Define the physiological role of bile. Describe the functional anatomy of biliary tract/gallbladder system. Define the regulation of bile secretion. Describe pathophysiological alterations of the biliary tract/gallbladder system.
Year 2	
Microbiology	Hepatitis viruses – team based learning exercise Interpretation of viral serologies
Pathology	Hepatic failure, encephalopathy, hepatorenal syndrome Jaundice: Gilbert syndrome, Dubin-Johnson, Crigler-Najar Cirrhosis Portal hypertension: ascites, shunts, splenomegaly Drugs/Toxins: acetaminophen, Thorotrast, vinyl chloride Hepatitis: viral hepatitis, autoimmune hepatitis Fatty liver: alcoholic hepatitis, nonalcoholic fatty liver disease Cholestatic disease: neonatal, primary biliary cirrhosis, primary sclerosing cholangitis

	<p>Metabolic disease: hemochromatosis, Wilson disease, alpha-1 antitrypsin deficiency</p> <p>Circulatory disease: Budd-Chiari syndrome, veno-occlusive disease</p> <p>Infectious disease: abscess, ameoba</p> <p>Benign tumors: hemangiomas, focal nodular hyperplasia, adenoma</p> <p>Malignant tumors: hepatoblastoma, hepatocellular carcinoma</p> <p>Gallbladder: cholelithiasis, cholecystitis, carcinoma</p> <p>Bile ducts: atresia, cholangitis, cholangiocarcinoma</p>
Pharmacology	<p>Role of liver In drug metabolism, biotransformation, and excretion</p> <p>Enterohepatic recirculation</p> <p>Antiviral drugs to treat viral hepatitis</p> <p>Hepatotoxicity of drugs</p>
Year 3	
Internal Medicine Clerkship	<p>Acute hepatitis</p> <p>Alcoholic hepatitis</p> <p>Viral Hepatitis</p> <p>Hepatorenal syndrome</p> <p>Interpretation of liver enzymes</p> <p>Interpretation of viral serologies</p> <p>Acetaminophen toxicity including interpretation of Rumack-Matthew nomogram</p>
Surgery Clerkship	<p>Wise MD skills module on use of ultrasound to diagnosis cholelithiasis and cholecystitis.</p>