

LV STRUCTURE & FXN

LV responsible for → bile, carb homeostasis, lipid & plasma lipoproteins, cholesterol metabolism, urea, serum albumin, clotting factors, enzymes, proteins, metabolism/detox drugs & foreign substances	Biliary Fxn → 500-600mL bile/day, solubilize fats/vitamins
--	---

LAB/IMAGING TESTS FOR LV & GB

ALANINE AMINOTRANSFERASE (ALT)	hepatitis → acute viral, chronic C, drug/toxin-induced cirrhosis, hepatocellular cancer
ASPARTATE AMINOTRANSFERASE (AST)	
LACTATE DEHYDROGENASE (LDH)	ischemic hepatitis, LV cancer
BILIRUBIN	inc prod, dec LV uptake, dec bile excretion
ULTRASONOGRAPHY	bile stones, RUQ abdom Px, causes of jaundice, LV masses
CT	fatty LV, LV masses

ASCITES	free fluid in peritoneum cavity → portal hypertension S/s: inc abdom girth, weight gain, fluid wave Dx: CT, ultrasound, paracentesis
JAUNDICE	yellow discoloration d/t hyperbilirubinemia Dx: LV fxn (bilirubin, aminotransferase, alkaline phosphatase)
ALCOHOLIC LV DISEASE	fatty LV, alcoholic hepatitis, cirrhosis Risk Fctrs: quantity/duration of alcohol use, sex, genetic/metabolic traits, obesity S/s: fatty LV → asymptomatic / alcoholic hepatitis → fatigue, fever, jaundice, RUQ Px, hepatomegaly / cirrhosis → asymptomatic, portal HTN, splenomegaly, ascites / chronic abuse → dupuytren contracture, hypogonadism, Vit def, parotid gland enlargement, pancreatitis Dx: Hx, LV fxn, CBC, biopsy Tx: no alcohol, supportive, corticosteroids, transplant
HEPATIC CIRRHOSIS	distortion of hepatic architecture S/s: fatigue, anorexia, malaise, weight loss, muscle wasting, nail clubbing, same as alcoholic LV Dx: jaundice, ascites, steatorrhea, splenomegaly, upper GI bleed
ACUTE CHOLECYSTITIS	inflam of GB over hours S/s: RUQ Px/tenderness, NV, F/C, Murphy Sign Dx: ultrasound Tx: cholecystectomy
CHOLELITHIASIS	Risk Fctrs: female, obesity, inc age, Western diet, American Indian, family Hx., rapid weight loss S/s: biliary colic Dx: ultrasound Tx: cholecystectomy, stone dissolution
HEPATOCELLULAR CARCINOMA	S/s: abdomn Px, weight loss, RUQ Px, hepatomegaly Tx: LV transplant