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Causes of Elevated Alkaline Phosphatase Cheat Sheet by [deleted] via cheatography.com/2754/cs/17876/

Causes of elevated alkaline phosphatase	Causes of elevated alkaline phosphatase (cont)
Hepatobiliary	Bony metastases
Bile duct obstruction	□ Hyperthyroidism
Choledocholithiasis	Hyerparathyroidism
Malignant obstruction	Source: http://acgblog.org/wp-content/uploads/2016/12/AJG-Kwo
□ Bile duct flukes	et-al-ACG-Liver-Chemistries-Guideline-2017.pdf
Bile duct stricture	
🗆 Ductopenia	Continued
AIDS cholangiopathy	
Cholestatic liver diseases	Pregnancy (third trimester)
Primary biliary cirrhosis	Chronic renal failure
	Lymphoma
Medications and drug-induced liver injury	Extra-hepatic malignancy
□ Infiltrative diseases of the liver	Congestive heart failure
□ Sarcoid	Childhood growth
Granulomatous hepatitis	
Tuberculosis	□ Inflammation
Amyloid	Influx of alkaline phosphatase after a fatty meal
Metastatic cancer	Blood type O and B
Lymphoma	Myeloid metaplasia
Hepatic abscess	Peritonitis
Hepatocellular carcinoma	 Diabetes mellitus
□ Viral hepatitis	Gastric ulcer
	Increasing age, especially women
Vanishing bile duct syndrome	PSC, primary sclerosing cholangitis; TPN, total parenteral nutrition.
Ischemic cholangiopathy	
Benign recurrent cholestasis	Algorithm for Evaluation - Normal
	Normal total bilirubin & serum transaminases
□ Alcoholic liver disease	
Intrahepatic cholestasis of pregnancy	1. History & physical exam confirm with serum GGT
Benign post-operative jaundice	2. If GGT normal> evaluate for non-hepatobiliary etiologies
ICU jaundice or multifactorial jaundice	If GGT abnormal> obtain right upper quadrant ultrasound,
□ TPN	evaluate for potential hepatotoxic medications,
Liver allograft rejection	check AMA, ANA, & SMA
Acute alcoholic hepatitis	3. If evaluation negative & alkaline phosphatase > 2x ULN>
□ Sickle cell liver crisis	consider liver biopsy
Sepsis	If evaluation negative & alkaline phosphatase 1-2x ULN -> consider
Congestive heart failure	observationIf ductal dilatation identified> ERCP or MRCP
Hemophagocytic lymphohistiocytosis	If AMA positive> evaluate for primary biliary cirrhosis/cholangitis
Non-hepatic	4. f persistent elevation of serum alkaline phosphatase after
Bone disease	6 months observation> consider liver biopsy
Osteomalacia	o monuns observation> consider liver biopsy
Paget's disease	

Primary bony malignancy



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Algorithm for evaluation - Elevated

Elevated serum transaminases ± elevated bilirubin
1. History & Physical exam
Check right upper quadrant ultrasound
2. If ductal dilatation --> ERCP, MRCP
If no ductal dilatation --> check AMA, ANA, SMA
3. If AMA positive --> evaluate for primary biliary cirrhosis/cholangitis
If AMA negative & alkaline phosphatase > 2x ULN --> consider liver
biopsy or MRCP
If AMA negative & alkaline phosphatase 1-2x ULN --> consider
observation
4. If persistent elevation of serum alkaline phosphatase after
6 months observation--> consider liver biopsy or MRCP



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