

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 ☐ Pregnancy (third trimester) ☐ Cholestatic liver diseases ☐ Chronic renal failure ☐ Primary biliary cirrhosis ☐ Lymphoma ☐ Extra-hepatic malignancy ☐ Medications and drug-induced liver injury ☐ Congestive heart failure ☐ Infiltrative diseases of the liver ☐ Childhood growth ☐ Sarcoid ☐ Infection ☐ Granulomatous hepatitis ☐ Inflammation □ Tuberculosis ☐ Influx of alkaline phosphatase after a fatty meal ☐ Amyloid ☐ Blood type O and B ☐ Metastatic cancer ☐ Myeloid metaplasia □ Lymphoma □ Peritonitis ☐ Hepatic abscess ☐ Diabetes mellitus ☐ Hepatocellular carcinoma ☐ Gastric ulcer □ Viral hepatitis ☐ Increasing age, especially women ☐ Cirrhosis PSC, primary sclerosing cholangitis; TPN, total parenteral nutrition. ☐ Vanishing bile duct syndrome ☐ Ischemic cholangiopathy ☐ Benign recurrent cholestasis **Algorithm for Evaluation - Normal** ☐ Sarcoidosis Normal total bilirubin & serum transaminases ☐ Alcoholic liver disease 1. History & physical exam ☐ Intrahepatic cholestasis of pregnancy 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

OsteomalaciaPaget's diseasePrimary bony malignancy

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6 months observation --> consider liver biopsy



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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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