

Causes of Elevated Billirubin Cheat Sheet

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Causes of Elevated Bilirubin	Causes of Elevated Bilirubin (cont)
Elevated unconjugated bilirubin	☐ Ductopenia
☐ Gilbert's syndrome	
☐ Crigler-Najjar syndrome	Continued
☐ Hemolysis (intravascular and extravascular)	☐ Dubin-Johnson syndrome
☐ Ineffective erythropoiesis	□ Rotor syndrome
☐ Resorption of large hematomas	☐ Sickle cell liver crisis
☐ Neonatal jaundice	☐ Hemophagocytic lymphohistiocytosis
☐ Hyperthyroidism	
☐ Medications	PSC, primary sclerosing cholangitis; TPN, total parenteral nutrition.
☐ Post-blood transfusion	
Elevated conjugated hyperbilirubinemia	Algorithm Elevated (predominant unconjugated)
☐ Bile duct obstruction	Elevated total bilirubin (predominant unconjugated)
☐ Choledocholithiasis	1. History and physical exam
☐ Malignant obstruction	Assess liver transaminases and serum alkaline phosphatase
☐ Bile duct flukes	2. Review medications
☐ Bile duct stricture	Evaluate for hemolysis
☐ AIDS cholangiopathy	Evaluate for Gilbert's syndrome
☐ Viral hepatitis	3. If persistent elevation is otherwise unexplained, may consider
☐ Toxic hepatitis	diagnostic testing for Gilbert's syndrome (UGT1A1 genotype)
☐ Medications or drug-induced liver injury	and evaluate for uncommon etiologies in Table 6
☐ Acute alcoholic hepatitis	4. If persistent elevation is otherwise unexplained, is
☐ Ischemic hepatitis	symptomatic, is worsening over time, and/or associated with
☐ Cirrhosis	abnormal transaminases
☐ Primary biliary cirrhosis	> consider liver biopsyy
□ PSC	
☐ Infiltrative diseases of the liver	Algorithm Elevated (predominant conjugated)
☐ Sarcoid	Elevated total bilirubin (predominant conjugated)
☐ Granulomatous hepatitis	1. History & physical exam
☐ Tuberculosis	Assess liver transaminases and serum alkaline phosphatase
☐ Metastatic cancer	2. Review medications
☐ Lymphoma	Evaluate for clinically overt etiologies: sepsis, TPN, cirrhosis, &
☐ Hepatocellular carcinoma	biliary obstruction
☐ Wilson disease (especially fulminant Wilson's disease)	Perform right upper quadrant ultrasound
☐ Autoimmune hepatitis	3. If ductal dilatation> ERCP or MRCP
☐ Ischemic hepatitis	If no ductal dilatation> check AMA, ANA, and SMA
☐ Congestive hepatopathy	4. If persistent elevation is otherwise unexplained, is
□ Sepsis	symptomatic, is worsening over time, and/or associated with
□ TPN	abnormal transaminases
☐ Intrahepatic cholestasis of pregnancy	> consider liver biopsy
☐ Benign post-operative jaundice	Source: http://acgblog.org/wp-content/uploads/2016/12/AJG-Kwo
☐ ICU or multifactorial jaundice	et-al-ACG-Liver-Chemistries-Guideline-2017.pdf
☐ Benign recurrent cholestasis	of all 7,000 Eiver Orientistries adiabilitie-2017.pdf
☐ Vanishing bile duct syndrome	



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