



Case Presentation

 Mr. Steel is a 59 year old male that presents for wellness exam. He has not followed with a physician for over 10 years. He has no complaints. Physical exam is benign except dark skin and a palpable spleen. He admits to drinking 2 bourbon's with dinner and sometimes more on weekend. Family history includes two brothers with diabetes mellitus.

Routi	ne blood work
AST	289 IU/L
ALT	311 IU/L
Alk. Phos.	343 IU/L
GGTP	360 IU/L
T. bilirubin	3.0 mg/dl
What is nex	t best step?







Common Liver Chemistries Liver chemistry test **Clinical Implication** Alanine aminotransferase Hepatocellular damage Aspartate aminotransferase Hepatocellular damage Bilirubin Cholestasis, Impaired conjugation, or Biliary obstruction Cholestasis, Infiltrative Dx, or Alkaline phosphatase **Biliary Obstruction** Synthetic Function Prothrombin time Synthetic Function Albumin Cholestasis or Biliary obstruction Gamma-glutamyltransferase 5-Nucleotidase Cholestasis or Biliary obstruction Lactate dehydrogenase Cholestasis or Biliary obstruction





























































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Test	Result	Interpretation
HBsAg anti-HBc anti-HBs	negative negative negative	Susceptible (vaccinate)
HBsAg anti-HBc anti-HBs	negative positive positive	Resolved HBV infection
HBsAg anti-HBc anti-HBs	negative negative positive	Vaccinated
HBsAg anti-HBc anti-HBs	positive positive negative	Active HBV infection (usually chronic) *If anti-HBc IgM present, may represent acute infection.
HBsAg HBcAb HBsAb	negative positive negative	Various possibilities: distant resolved infection (most common) recovering from acute infection false positive occult hepatitis B











































