

Hepatitis A

Screening Labs

anti-HA IgG	Demonstrates immunity (either through vaccination or prior infection)
OR	
Hepatitis A Total Antibody	
anti-HA IgM	Demonstrates acute infection

Hepatitis B

Screening Labs

Initial Screening:	HBsAg, anti-HBc IgG, anti-HBs (Hepatitis B Surface Antibody)
All HBsAg+ subjects:	HBeAg, anti-HBeAb, quantitative HBV DNA level by PCR, Alpha-fetoprotein (AFP), Hepatitis D (Delta) Antibody (screen for co-infection)

Interpretation of Diagnostic Tests

	Acute HBV Infection	Past Exposure (Immunity)	Vaccine Responder	Chronic HBV Infection	Chronic Precore Mutant	Inactive Carrier
HBsAg	+	-	-	+	+	+
anti-HBs	-	+	+	-	-	-
HBeAg	+	-	-	+	-	-
anti-HBe	-	+/-	-	-	+	+
anti-HBc IgG	+	+	-	+	+	+
anti-HBc IgM	+	-	-	-	-	-
HBV DNA (PCR)	+	-	-	+	+	-

If HBsAg(-), anti-HBc(+), and anti-HBs(-) = several possible interpretations

- Recovering from acute HBV infection
- Immune but undetectable level of anti-HBs
- False positive anti-HBc and susceptible to infection
- HBV carrier with undetectable HBsAg level

Obtain quantitative HBV DNA level by PCR and consider repeating initial screen.

Hepatitis C

Screening Labs

- Initial Screening: anti-HCV (2nd or 3rd generation EIA)
- All anti-HCV(+) subjects: quantitative HCV RNA, HCV genotype
- If anti-HCV(+) and quantitative HCV RNA(-): qualitative and quantitative HCV RNA in 6 months

Additional Screening Labs/ Baseline Evaluations

- Obtain CBC, BMP with hepatic function panel, PT/PTT, lipid profile, ferritin, iron, TSH, HIV ELISA/WB, ANA.
- Screen for hepatocellular carcinoma (HCC): AFP and liver imaging (ultrasound, CT, or MRI).
- Consider liver biopsy to grade and stage disease.