

Hepatitis A

Screening Labs

Positive hepatitis A antibody (total or IgG) = Immunity either through vaccination or prior infection

Positive hepatitis A antibody IgM = Acute Infection

Hepatitis B

Screening Labs

Initial Screening: HBsAg, anti-HBc IgG, anti-HBs (Hepatitis B Surface Antibody)

If HBsAg +: 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 HBV Precore Mutant	Occult HBV	Inactive Carrier
HBsAg	+	-	-	+	+	-	+
anti-HBs	-	+	+	-	-	-	-
HBeAg	+	-	-	+	-	-	-
anti-HBe	-	+/-	-	-	+ *	-	+
anti-HBc IgG	+	+	-	+	+	+	+
anti-HBc IgM	+	-	-	-	-	-	-
HBV DNA (PCR)	+	-	-	+	+	+	-

* May be negative in a minority of patients

Occult HBV - Several 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

Patients should receive Hepatitis B vaccination (consider double dose).

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