

Acute Exposure to HBV

DNA Virus

Acute HB

15%

85%

Chronic HB

Get Better

HBsAg +ve

Rx

HBsAg -ve
HBcAg +ve
Ab +ve
(cured and immune)

Chronic Inactive

Chronic Active

HBeAg +
inc HB DNA
inc ALT

Goal
undetectable HB DNA
normal ALT
loss of HBeAg + HBsAg
inc. HBeAb + HBsAb

Treatment

Entecavir
Tenofovir
peg-IFN

HBsAg +ve
HBeAg -ve
**(Chronic Carrier
Non Infectious)**

HBsAg +ve
HBeAg+ve
**(Chronic Active
and Infectious)**

or HBeAg -ve + HB DNA +ve
HepD +ve = pre core mutant

6m LFT / aFP
HBeAg / HB DNA

6m ALT / aFP / HB DNA / USS

20-40%

Progression

4-5 yr

Cirrhosis

HCC

Hepatitis B Serology

	HBsAg	HBsAb	IgM HBcAb	IgG HBcAb	HBeAg	HBeAb	HBV-DNA
Acute	+	-	+	-	+	-	+
Resolved Acute	-	+	-	+	-	+	-
Chronic Carrier	+	-	-	+/-	-	+	-
Chronic Active	+	-	-	+/-	+	-	+
Chronic Active Pre-Core Mutant	+	-	-	+/-	-	+	+
Vaccinated	-	+	-	-	-	-	-

HBeAG	HB DNA	ALT	Recommended
+	> 20,000	Elevated	Rx antiviral or IFN
-	> 2,000	Elevated	Bx, fibroscan +/- Rx
+	< 20,000	Any	Monitor q6-12m
-	> 2,000	Normal	Bx, treat if abn
+	> 20,000	Normal	Observe, Bx age > 40,
-	< 2,000	Any	Monitor
Cirrhosis	Any	Any	Tx
Liver Failure	Any	Any	Tx + transplant