

Supplementary Table 1 Clinical and virological characteristics of the hepatitis B virus infection patients

Characteristics	Non-HCC <i>n</i> = 370	HBV-related HCC <i>n</i> = 287	<i>P</i> value	Reference ranges
Serum HBV-DNA			0.07	
Positive	309	254		
Negative	61	33		
HBV load, log ₁₀ (IU/mL)	5.16 (2.44, 6.60)	4.60 (3.64, 5.98)	0.051	1.3-8.2
HBeAg				
Positive	158	102	0.203	
Negative	210	167		
ALT (U/L), M (P25, P75)	51.5 (26.0, 157.8)	43.5 (27.8, 69.3)	0.004	13.0-35.0
AST (U/L), M (P25, P75)	51.0 (33.0, 122.0)	62.0 (38.0, 110.0)	0.087	7.0-40.0
ALP (U/L), M (P25, P75)	89.0 (67.8, 124.0)	129.5 (86.0, 190.5)	0.000	50.0-135.0
GGT (U/L), M (P25, P75)	55.0 (29.0, 128.0)	112.5 (51.3, 254.3)	0.000	7.0-45.0
prealbumin (g/L), M (P25, P75)	0.13 (0.09, 0.17)	0.13 (0.08, 0.17)	0.695	0.18-0.39
Albumin (g/L), M (P25, P75)	32.0 (27.5, 37.8)	33.1 (28.3, 37.3)	0.328	40.0-55.0
Total bilirubin (μmol/L), M (P25, P75)	24.8 (14.9, 59.5)	25.9 (16.5, 44.2)	0.866	0.0-8.6
Cholinesterase (U/L), M (P25, P75)	3893.0 (2653.5, 5804.0)	3918.0 (2488.3, 5762.0)	0.584	4300-12000
Platelet count (× 10 ⁹ /L), M (P25, P75)	99.0 (58.0, 145.0)	118.5 (78.8, 172.0)	0.000	100-300

ALT: Alanine transaminase; AST: Aspartate aminotransferase; ALP: Alkaline phosphatase; GGT: Gamma-glutamic transpeptidase; HBV: Hepatitis B virus; HCC: Hepatocellular carcinoma.

Supplementary Table 2 The hepatitis B virus viral load of rs8177832 and rs2011861 each genotypes in each group

Genotype	Number	HBV load, log ₁₀ (IU/mL)	<i>P</i> value
Rs8177832			
Non-HCC			
AA	291	5.05 (2.51, 6.59)	0.317
AG	65	5.66 (2.47, 6.76)	
GG	2	1.69 (1.27, 1.27)	
AG + GG	67	5.58 (2.32, 6.74)	
HCC			
AA	231	4.59 (3.08, 5.98)	0.784
AG	32	4.65 (2.45, 6.08)	
GG	2	3.73 (1.27, 4.32)	
AG + GG	34	4.66 (2.21, 5.87)	
CHB			
AA	522	4.80 (2.88, 6.25)	0.379
AG	97	5.24 (2.47, 6.62)	
GG	4	1.70 (1.70, 4.74)	
AG + GG	101	5.27 (2.32, 6.60)	
Rs2011861			
Non-HCC			

CC			
CT	165	5.41 (3.00, 6.58)	0.67
TT	136	5.06 (2.24, 6.82)	0.95
CT + TT	301	5.13 (2.53, 6.59)	0.83
HCC			
CC	28	4.17 (2.09, 5.61)	
CT	128	4.77 (3.08, 6.18)	0.19
TT	102	4.52 (3.30, 5.92)	0.34
CT + TT	230	4.70 (3.19, 6.00)	0.22
CHB			
CC	81	4.52 (2.32, 8.48)	
CT	395	4.93 (2.16, 6.60)	0.43
TT	136	5.06 (2.24, 6.82)	0.49
CT + TT	531	4.96 (3.04, 6.33)	0.42

CHB: Chronic hepatitis B; HBV: Hepatitis B virus; HCC: Hepatocellular carcinoma.

Supplementary Table 3 The hepatitis e antigen seroconversion distribution of rs8177832 and rs2011861 polymorphisms in each group *n* (%)

Genotype	HBeAg(+)HBeAb(-)	HBeAg(-)HBeAb(+)	<i>P</i> value
Rs8177832			
Non-HCC			
AA	108 (83)	123 (81)	0.64
AG	22 (17)	29 (19)	
HCC			
AA	96 (92.3)	100 (81.3)	0.02
AG	7 (6.7)	21 (17.1)	
GG	1 (1.0)	2 (1.6)	1.00
AG + GG	8	23	0.02
CHB			
AA	204 (87.2)	223 (81.1)	0.07
AG	29 (12.4)	50 (18.2)	
GG	1 (0.4)	2 (0.7)	1.00
AG + GG	30	52	0.07
Rs2011861			
Non-HCC			
CC	20 (15.5)	21 (13.9)	0.59
CT	58 (45.0)	74 (49.0)	
TT	51 (39.5)	56 (37.1)	0.90
CT + TT	109	130	0.59
HCC			
CC	11 (10.9)	15 (12.7)	0.51
CT	55 (54.5)	52 (44.1)	
TT	35 (34.7)	51 (43.2)	0.88
CT + TT	90	103	0.68
CHB			

CC	31 (13.5)	36 (13.4)	
CT	113 (49.1)	126 (46.8)	0.59
TT	86 (37.4)	107 (39.8)	0.81
CT + TT	199	233	0.98

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