

Table SI. Baseline characteristics of the study population in patients of chronic hepatitis B virus infection.

Variable	CTP class A (n=615)	CTP class B/C (n=326)	P-value
Age (years)	50.96±10.78	49.03±11.12	0.009
Male sex	430 (69.92)	227 (69.63)	0.987
Platelet count (x10 ⁹ /l)	123.40±67.23	80.65±60.24	<0.001
PC/ST ratio	252,2.91±2.28	198,1.47±1.16	<0.001
AST (U/l)	54.30±82.80	142.10±144.20	<0.001
ALT (U/l)	53.76±116.93	97.30±160.21	<0.001
TP (g/l)	70.42±7.86	64.72±9.91	<0.001
Albumin (g/l)	42.98±4.28	34.79±5.74	<0.001
TBIL (μmol/l)	20.96±8.80	84.03±106.75	<0.001
DBIL (μmol/l)	5.20±2.80	39.68±73.76	<0.001
IBIL (μmol/l)	15.76±6.69	45.04±41.02	<0.001
CHE (KU/l)	6.04±1.89	3.23±1.46	<0.001
TC (mmol/l)	3.82±0.93	2.89±1.40	<0.001
PT (sec)	12.47±1.19	17.05±5.41	<0.001
PTA (%)	85.84±14.76	58.54±17.60	<0.001
APTT (sec)	34.18±5.86	39.02±12.85	<0.001
Splenic thickness (mm)	252,44.54±11.77	198,52.76±10.75	<0.001
Portal vein diameter (mm)	312,11.84±2.03	196,13.33±2.33	<0.001
FIB-4	4.48±4.53	10.85±10.57	<0.001
APRI	1.50±2.01	5.21±9.62	<0.001

Values are expressed as the mean ± standard deviation or n (%). CTP, Child-Turcotte-Pugh; PC/ST ratio, platelet count to splenic thickness ratio; ALT, alanine aminotransferase; AST, aspartate aminotransferase; TBIL, total bilirubin; DBIL, direct bilirubin; IBIL, indirect bilirubin; TP, total protein; CHE, cholinesterase; TC, total cholesterol; PT, prothrombin time; PTA, prothrombin activity; APTT, activated partial thromboplastin time; FIB-4, fibrosis index based on four factors; APRI, AST-to-platelet ratio index.

Table SII. Correlation between variables and Child-Turcotte-Pugh score in patients with chronic hepatitis B virus infection.

Variable	r-value	P-value
Platelet count	-0.420	<0.001
PC/ST ratio	-0.425	<0.001
FIB-4	0.570	<0.001
APRI	0.607	<0.001
Splenic thickness	0.389	<0.001
Portal vein diameter	0.401	<0.001
Albumin	-0.654	<0.001
CHE	-0.708	<0.001
PT	0.757	<0.001
PTA	-0.729	<0.001

PC/ST ratio, platelet count to splenic thickness ratio; FIB-4, fibrosis index based on four factors; APRI, aspartate transaminase-to-platelet ratio index; CHE, cholinesterase; PT, prothrombin time; PTA, prothrombin activity.

Table SIII. Correlation between platelet count and variables associated with liver function.

Variable	r-value	P-value
ALT	-0.027	0.413
Albumin	0.350	<0.001
CHE	0.500	<0.001
PT	-0.522	<0.001
Splenic thickness	-0.631	<0.001
Portal vein diameter	-0.371	<0.001
PTA	0.503	<0.001

ALT, alanine aminotransferase; CHE, cholinesterase; PT, prothrombin time; PTA, prothrombin activity.

Table SIV. Independently associated indicators for moderate to severe liver function impairment in patients with chronic hepatitis B virus infection obtained by multivariate analysis of the indicators with statistical differences in Table SI.

Variable	OR	95% CI	P-value
Platelet count	0.994	0.990-0.999	0.009
Albumin	0.703	0.662-0.746	<0.001
Age	0.971	0.950-0.993	0.010
TBIL	1.146	1.117-1.175	<0.001
ALT	0.997	0.970-1.024	0.823

OR, odds ratio; CI, confidence interval; ALT, alanine aminotransferase; TBIL, total bilirubin.

Table SV. Characteristics of patients stratified into CHB set and cirrhosis set.

Variable	CHB (n=226)	Cirrhosis (n=347)	P-value
Age (years)	49.69±13.00	48.30±10.17	0.018
Male sex	126 (55.75)	229 (65.99)	0.017
Platelet count (x10 ⁹ /l)	167.13±61.08	65.71±38.11	<0.001
PC/ST ratio	91.4.70±2.20	255.1.36±1.00	<0.001
AST (U/l)	68.22±152.41	83.10±135.81	<0.001
ALT (U/l)	83.82±205.37	69.99±121.05	<0.001
TP (g/l)	68.63±8.41	67.10±10.03	0.048
Albumin (g/l)	43.15±4.71	37.42±6.98	<0.001
TBIL (μmol/l)	25.89±39.76	63.86±99.50	<0.001
DBIL (μmol/l)	8.33±24.08	28.11±67.50	<0.001
CHE (KU/l)	6.86±1.96	3.86±1.83	<0.001
TC (mmol/l)	3.99±0.93	2.82±1.00	<0.001
PT (sec)	12.04±2.03	16.08±5.16	<0.001
PTA (%)	91.43±15.70	64.67±19.95	<0.001
APTT (sec)	33.83±5.77	37.68±12.84	<0.001
Splenic thickness (mm)	91,35.74±7.33	255,52.80±11.18	<0.001
Portal vein diameter (mm)	130,10.89±1.23	256,12.97±2.14	<0.001
FIB-4	2.51±2.21	9.23±9.02	<0.001
APRI	1.19±2.55	3.91±5.91	<0.001
CTP score	5.29±0.80	7.80±2.46	<0.001

Values are expressed as the mean ± standard deviation or n (%). CHB, chronic hepatitis B; CTP, Child-Turcotte-Pugh; PC/ST ratio, platelet count to splenic thickness ratio; ALT, alanine aminotransferase; AST, aspartate aminotransferase; TBIL, total bilirubin; DBIL, direct bilirubin; IBIL, indirect bilirubin; TP, total protein; CHE, cholinesterase; TC, total cholesterol; PT, prothrombin time; PTA, prothrombin activity; APTT, activated partial thromboplastin time; FIB-4, fibrosis index based on four factors; APRI, AST-to-platelet ratio index.

Table SVI. Association among variables and FIB-4, APRI and splenic thickness.

Variable	FIB-4		APRI		Splenic thickness	
	r-value	P-value	r-value	P-value	r-value	P-value
Platelet count	-0.855	<0.001	-0.741	<0.001	-0.687	<0.001
PC/ST ratio	-0.782	<0.001	-0.619	<0.001	-0.828	<0.001
Splenic thickness	0.505	<0.001	0.388	<0.001	N/A	N/A
CTP score	0.613	<0.001	0.650	<0.001	0.403	<0.001
Albumin	-0.556	<0.001	-0.517	<0.001	-0.298	<0.001
PT	0.661	<0.001	0.671	<0.001	0.462	<0.001
PTA	-0.635	<0.001	-0.639	<0.001	-0.432	<0.001

FIB-4, fibrosis index based on four factors; APRI, aspartate transaminase-to-platelet ratio index; PT, prothrombin time; PTA, prothrombin activity; CTP, Child-Turcotte-Pugh; PC/ST ratio, platelet count to splenic thickness ratio.

Table SVII. Independently associated indicators of cirrhosis obtained by multivariate analysis of the indicators with statistical differences in Table SV.

Variable	OR	95% CI	P-value
Platelet count	0.976	0.967-0.985	<0.001
CTP score	1.805	1.331-2.449	<0.001
Splenic thickness	1.112	1.056-1.171	<0.001
Age	1.002	0.962-1.043	0.921

OR, odds ratio; CI, confidence interval; CTP, Child-Turcotte-Pugh.

Table SVIII. Diagnostic performance of platelet count and other variables for cirrhosis in chronic hepatitis B virus infection.

Variable	AUC (95% CI)	P-value	Cut-off value	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	LR+	LR-
Platelet count ($\times 10^9/l$)	0.927 (0.902-0.947)	<0.001	121.00	78.76	92.22	86.80	87.00	10.12	0.23
Splenic thickness (mm)	0.903 (0.867-0.932)	<0.001	41	83.52	84.31	65.50	93.50	5.32	0.20
CTP score	0.838 (0.806-0.867)	<0.001	5.00	84.07	77.52	70.90	88.20	3.74	0.21

AUC, area under curve; PPV, positive predictive value; NPV, negative predictive value; LR+, positive likelihood ratio; LR-, negative likelihood ratio; CTP, Child-Turcotte-Pugh.

Table SIX. Characteristics of patients stratified into CHB set and compensated cirrhosis set.

Variable	CHB (n=226)	Compensated cirrhosis (n=170)	P-value
Age (years)	49.69±13.00	46.88±9.92	0.015
Male sex	126 (55.75)	109 (64.12)	0.115
Platelet count (x10 ⁹ /l)	167.13±61.08	70.88±41.37	<0.001
PC/ST ratio	91,4.70±2.20	126,1.50±1.15	<0.001
AST (U/l)	68.22±152.41	66.76±115.42	<0.001
ALT (U/l)	83.82±205.37	56.63±84.44	0.002
TP (g/l)	68.63±8.41	69.96±9.35	0.139
Albumin (g/l)	43.15±4.71	40.47±6.77	<0.001
TBIL (μmol/l)	25.89±39.76	44.48±73.05	<0.001
DBIL (μmol/l)	8.33±24.08	17.63±53.23	<0.001
CHE (KU/l)	6.86±1.96	4.67±1.92	<0.001
TC (mmol/l)	3.99±0.93	3.15±0.92	<0.001
PT (sec)	12.04±2.03	14.37±2.42	<0.001
PTA (%)	91.43±15.70	72.83±18.69	<0.001
APTT (sec)	33.83±5.77	35.14±7.99	0.071
Splenic thickness (mm)	91,35.74±7.33	126,51.16±11.34	<0.001
Portal vein diameter (mm)	130,10.89±1.23	129,12.58±2.07	<0.001
FIB-4	2.51±2.21	7.99±8.23	<0.001
APRI	1.19±2.55	3.17±5.26	<0.001
CTP score	5.29±0.80	6.20±1.47	<0.001

Values are expressed as the mean ± standard deviation or n (%). CHB, chronic hepatitis B; CTP, Child-Turcotte-Pugh; PC/ST ratio, platelet count to splenic thickness ratio; AST, aspartate aminotransferase; TBIL, total bilirubin; DBIL, direct bilirubin; IBIL, indirect bilirubin; TP, total protein; CHE, cholinesterase; TC, total cholesterol; PT, prothrombin time; PTA, prothrombin activity; APTT, activated partial thromboplastin time; FIB-4, fibrosis index based on four factors; APRI, AST-to-platelet ratio index.

Table SX. Independently associated indicators of compensated cirrhosis obtained by multivariate analysis of the indicators with statistical differences in Table SIX.

Variable	OR	95% CI	P-value
Platelet count	0.966	0.959-0.974	<0.001
Albumin	1.069	1.006-1.135	0.030
PTA	0.964	0.944-0.984	<0.001
Age	0.968	0.941-0.996	0.023
FIB-4	1.084	0.956-1.229	0.252
CTP score	1.120	0.785-1.599	0.397

CTP, Child-Turcotte-Pugh; OR, odds ratio; CI, confidence interval; PTA, prothrombin activity; FIB-4, fibrosis index based on four factors.