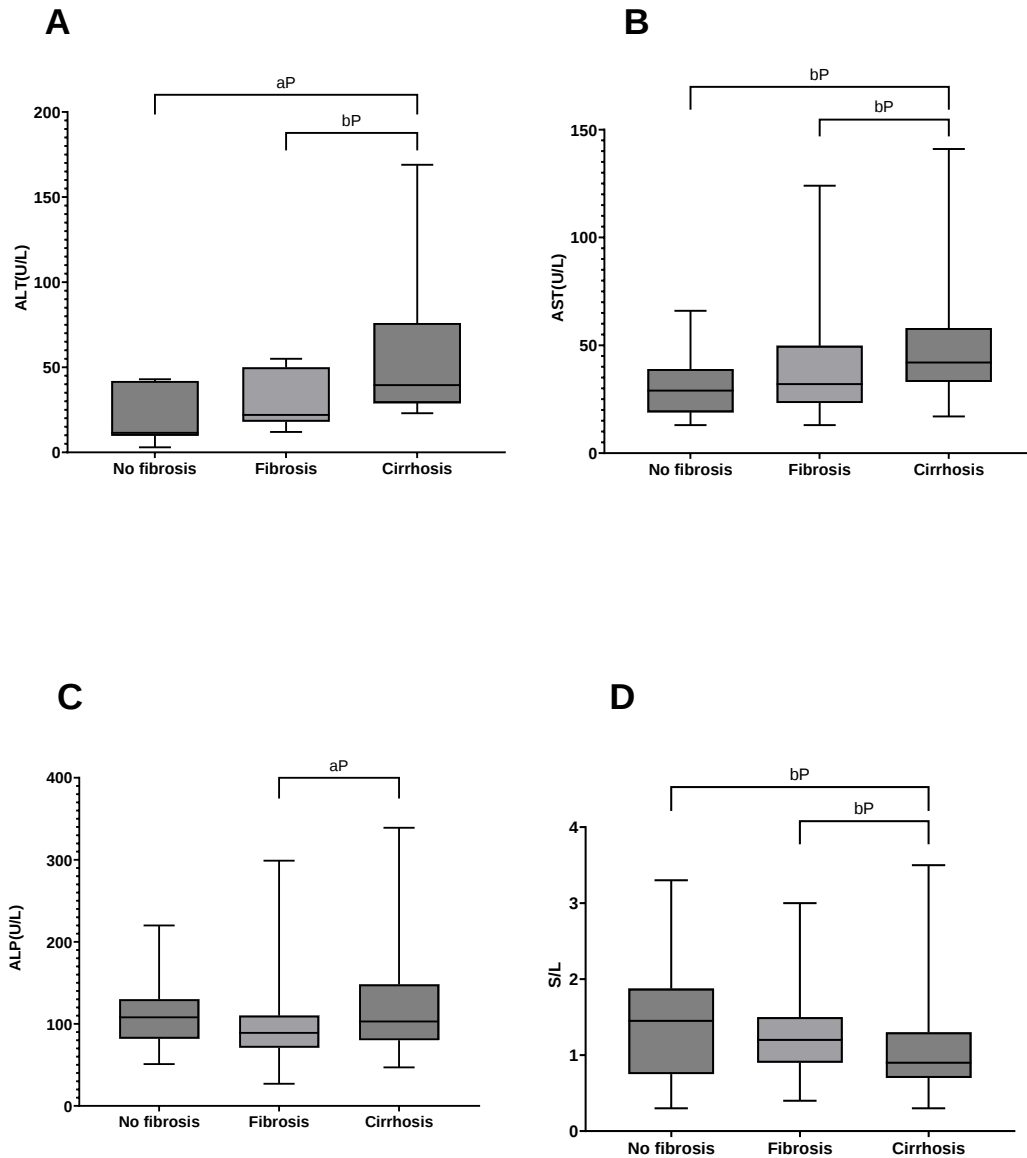
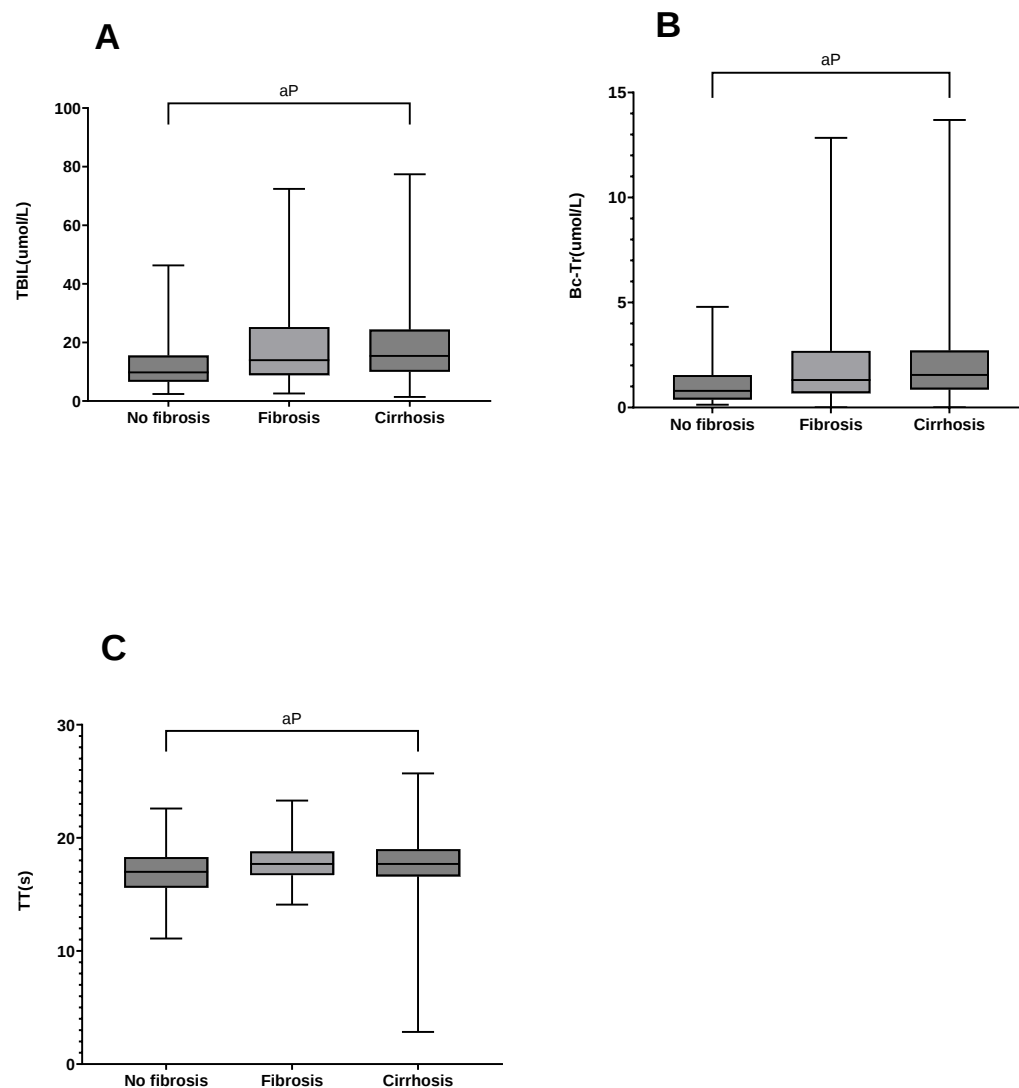




Supplementary Figure 1 Two-by-two comparisons among different fibrosis groups. A: ALT; B: AST; C: ALP; D: S/L. The Wilcoxon rank-sum test was used for intergroup comparisons of ALT, AST, ALP and S/L. ^aP, adjusted $P < 0.05$. ^bP, adjusted $P < 0.001$.



Supplementary Figure 2 Two-by-two comparisons among different fibrosis groups. A: TBIL; B: Bc-Tr; C: TT. The Wilcoxon rank-sum test was used for intergroup comparisons of TBIL, Bc-Tr and TT. ^aP, adjusted $P < 0.05$.

Supplementary Table 1 Models of mediating effects of blood glucose, liver-related indicators and LSM

Independent variable	Mediating variable		<i>B</i>	Std.Error	95%CI	<i>P</i> value
HbA1c	ALT	Total effect	0.20	0.49	(-0.76,1.17)	0.678
		Direct effect	-0.10	0.47	(-1.03,0.83)	0.836
		Indirect effect	0.30	0.15	(0.03,0.60)	None
		a	6.06	3.02	(0.12,12.00)	0.046
		b	0.05	0.01	(0.03,0.07)	<0.001
Admission FPG	ALT	Total effect	0.60	0.23	(0.15,1.05)	0.009
		Direct effect	0.48	0.22	(0.04,0.91)	0.032
		Indirect effect	0.12	0.06	(0.03,0.27)	None
		a	2.24	1.12	(0.04,4.45)	0.046
		b	0.055	0.01	(0.04,0.08)	<0.001
Discharge FPG	ALT	Total effect	0.70	0.33	(0.06,1.35)	0.032
		Direct effect	0.40	0.32	(-0.23,1.03)	0.209
		Indirect effect	0.30	0.12	(0.13,0.57)	None
		a	6.33	1.82	(2.74,9.91)	0.001
		b	0.05	0.01	(0.03,0.07)	<0.001
HbA1c	AST	Total effect	0.20	0.49	(-0.76,1.17)	0.678
		Direct effect	0.13	0.47	(-0.79,1.04)	0.787
		Indirect effect	0.08	0.19	(-0.34,0.42)	None
		a	0.85	1.72	(-2.55,4.24)	0.623

Admission FPG	AST	b	0.09	0.02	(0.06,0.13)	<0.001
		Total effect	0.60	0.23	(0.15,1.05)	0.009
		Direct effect	0.51	0.22	(0.08,0.94)	0.022
		Indirect effect	0.02	0.02	(-0.01,0.06)	None
		a	1.13	0.78	(-0.39,2.66)	0.145
Discharge FPG	AST	b	0.08	0.01	(0.06,0.11)	<0.001
		Total effect	0.70	0.33	(0.06,1.35)	0.032
		Direct effect	0.36	0.32	(-0.27,0.98)	0.263
		Indirect effect	0.35	0.14	(0.11,0.65)	None
		a	4.14	1.14	(1.90,6.38)	<0.001
HbA1c	ALP	b	0.08	0.01	(0.06,0.11)	<0.001
		Total effect	0.21	0.49	(-0.76,1.18)	0.673
		Direct effect	0.23	0.48	(-0.71,1.17)	0.634
		Indirect effect	-0.02	0.11	(-0.25,0.20)	None
		a	-0.35	1.96	(-4.21,3.51)	0.858
Admission FPG	ALP	b	0.06	0.02	(0.03,0.09)	<0.001
		Total effect	0.60	0.23	(0.15,1.05)	0.009
		Direct effect	0.60	0.23	(0.16,1.05)	0.008
		Indirect effect	<0	0.03	(-0.07,0.06)	None
		a	-0.04	0.91	(-1.83,1.76)	0.968
Discharge FPG	ALP	b	0.03	0.01	(0.01,0.06)	0.008
		Total effect	0.70	0.33	(0.06,1.35)	0.032
		Direct	0.65	0.33	(0.01,1.29)	0.047

HbA1c	S/L	effect				
		Indirect	0.06	0.06	(-0.04,0.18)	None
		effect				
		a	1.85	1.32	(-0.75,4.45)	0.162
		b	0.03	0.01	(0.004,0.06)	0.022
Admission FPG	S/L	Total effect	0.20	0.49	(-0.76,1.17)	0.678
		Direct	0.03	0.48	(-0.93,0.98)	0.957
		effect				
		Indirect	0.18	0.08	(0.05,0.37)	None
		effect				
Discharge FPG	S/L	a	-0.04	0.02	(-0.08,0.004)	0.074
		b	-4.76	1.43	(-7.57,-1.95)	0.001
		Total effect	0.60	0.23	(0.15,1.05)	0.009
		Direct	0.56	0.23	(0.11,1.00)	0.014
		effect				
HbA1c	TBIL	Indirect	0.05	0.03	(-0.02,0.12)	None
		effect				
		a	-0.01	0.01	(-0.03,0.01)	0.232
		b	-3.79	1.15	(-6.04,-1.54)	0.001
		Total effect	0.70	0.33	(0.06,1.35)	0.032
HbA1c	TBIL	Direct	0.64	0.32	(0.003,1.27)	0.049
		effect				
		Indirect	0.07	0.06	(-0.04,0.21)	None
		effect				
		a	-0.02	0.01	(-0.05,0.01)	0.229
HbA1c	TBIL	b	-3.82	1.18	(-6.14,-1.50)	0.001
		Total effect	0.20	0.49	(-0.76,1.17)	0.678
		Direct	0.17	0.49	(-0.79,1.14)	0.726
		effect				
		Indirect	0.03	0.07	(-0.05,0.23)	None
HbA1c	TBIL	effect				
		Indirect	0.03	0.07	(-0.05,0.23)	None
		effect				
		a	-0.02	0.01	(-0.05,0.01)	0.229
		b	-3.82	1.18	(-6.14,-1.50)	0.001

Admission FPG	TBIL	a	1.28	1.87	(-2.40,4.96)	0.495
		b	0.03	0.02	(-0.01,0.06)	0.117
		Total effect	0.60	0.23	(0.15,1.05)	0.009
		Direct effect	0.60	0.23	(0.15,1.05)	0.010
		Indirect effect	0.01	0.02	(-0.02,0.08)	None
Discharge FPG	TBIL	a	0.66	0.92	(-1.14,2.46)	0.472
		b	0.01	0.01	(-0.01,0.04)	0.383
		Total effect	0.70	0.33	(0.06,1.35)	0.032
		Direct effect	0.67	0.33	(0.03,1.316)	0.039
		Indirect effect	0.03	0.05	(-0.02,0.16)	None
HbA1c	Bc-Tr	a	1.45	1.33	(-1.16,4.06)	0.275
		b	0.02	0.01	(-0.01,0.05)	0.124
		Total effect	0.21	0.49	(-7.67,1.18)	0.678
		Direct effect	0.12	0.49	(-0.85,1.09)	0.800
		Indirect effect	0.08	0.10	(-0.03,0.35)	None
Admission FPG	Bc-Tr	a	1.44	1.08	(-0.68,3.56)	0.183
		b	0.06	0.03	(0.0001,0.11)	0.050
		Total effect	0.56	0.23	(0.11,1.00)	0.014
		Direct effect	0.54	0.23	(0.10,0.99)	0.017
		Indirect effect	0.01	0.04	(-0.03,0.12)	None
Discharge FPG	Bc-Tr	a	0.44	0.58	(-0.70,1.58)	0.446
		b	0.03	0.02	(-0.01,0.07)	0.111
		Total effect	0.49	0.34	(-0.17,1.15)	0.150

HbA1c	TT	Direct effect	0.44	0.34	(-0.22,1.10)	0.190
		Indirect effect	0.05	0.07	(-0.01,0.23)	None
		a	1.23	0.90	(-0.54,3.00)	0.173
		b	0.04	0.02	(0.002,0.08)	0.042
		Total effect	0.27	0.50	(-0.71,1.25)	0.591
		Direct effect	0.25	0.50	(-0.73,1.23)	0.619
		Indirect effect	0.02	0.05	(-0.06,0.15)	None
		a	0.04	0.06	(-0.07,0.15)	0.439
		b	0.46	0.55	(-0.63,1.55)	0.404
		Total effect	0.59	0.23	(0.14,1.04)	0.010
Admission FPG	TT	Direct effect	0.60	0.23	(0.15,1.05)	0.010
		Indirect effect	<0	0.03	(-0.07,0.05)	None
		a	-0.01	0.03	(-0.06,0.05)	0.814
		b	0.72	0.42	(-0.12,1.55)	0.093
		Total effect	0.70	0.33	(0.05,1.34)	0.034
		Direct effect	0.67	0.33	(0.03,1.31)	0.041
Discharge FPG	TT	Indirect effect	0.03	0.04	(-0.03,0.13)	None
		a	0.04	0.04	(-0.04,0.11)	0.365
		b	0.81	0.44	(-0.05,1.68)	0.060

HbA1c: Glycated hemoglobin A1c; FPG: Fasting plasma glucose; ALT: Alanine aminotransferase; AST: Aspartate transaminase; ALP: Alkaline phosphatase; S/L: AST/ ALT; TBIL: Total bilirubin; Bc-Tr: True: Conjugated bilirubin; TT: Thrombin time. $B < 0$ indicates a negative correlation between the

independent and dependent variables.