

Supplementary Table S3. Comparison of baseline clinical parameters between infected and uninfected patients with ACLF in the discovery set and validation set.

Characteristics	Discovery Set		<i>P</i> -value	Validation set		<i>P</i> -value
	Non-infection	Infection		Non-infection	Infection	
	(n = 179)	(n = 136)		(n = 74)	(n = 62)	
Age, M (Q, Q ₃)	48.44 (41.00 - 56.00)	49.05 (42.48 - 55.50)	0.762	47.44 (40.00 - 56.30)	49.49 (41.67 - 59.77)	0.869
Male, n (%)	146.00 (81.56)	109.00 (80.15)	0.751	58.00 (78.38)	52.00 (83.87)	0.417
Cirrhosis, n (%)	138.00 (77.09)	113.00 (83.09)	0.190	66.00 (89.19)	54.00 (87.10)	0.706
Aetiology, n (%)						
HBV	145.00 (81.01)	107.00 (78.68)	0.609	54.00 (72.97)	49.00 (79.03)	0.412
HCV	1.00 (0.56)	0.00 (0.00)	0.383	1.00 (1.35)	1.00 (1.61)	0.900
HEV	11.00 (6.15)	2.00 (1.47)	0.039	2.00 (2.70)	1.00 (1.61)	0.666
Alcohol	31.00 (17.32)	36.00 (26.47)	0.049	15.00 (20.27)	18.00 (29.03)	0.235
Autoimmune	14.00 (7.82)	8.00 (5.88)	0.504	6.00 (8.11)	5.00 (8.06)	0.993
NAFLD	12.00 (6.70)	1.00 (0.74)	0.008	1.00 (1.35)	2.00 (3.23)	0.459
Schistosomiasis	1.00 (0.56)	0.00 (0.00)	0.383	1.00 (1.35)	2.00 (3.23)	0.459
Cryptogenic	3.00 (1.68)	7.00 (5.15)	0.082	4.00 (5.41)	4.00 (6.45)	0.796
Type of AD, n (%)						
HE			0.495			0.828
0	150.00 (83.80)	116.00 (85.29)		59.00 (79.73)	46.00 (74.19)	
1	10.00 (5.59)	3.00 (2.21)		4.00 (5.41)	5.00 (8.06)	
2	9.00 (5.03)	7.00 (5.15)		6.00 (8.11)	8.00 (12.90)	
3	5.00 (2.79)	7.00 (5.15)		3.00 (4.05)	2.00 (3.23)	
4	5.00 (2.79)	3.00 (2.21)		2.00 (2.70)	1.00 (1.61)	
Jaundice	157.00 (87.71)	129.00 (94.85)	0.030	59.00 (79.73)	59.00 (95.16)	0.008
Ascites	92.00 (51.40)	107.00 (78.68)	<0.001	34.00 (45.95)	51.00 (82.26)	<0.001
GI bleeding	169.00 (94.41)	126.00 (92.65)	0.524	66.00 (89.19)	59.00 (95.16)	0.203
Laboratory data, M (Q, Q ₃)						
TB (mg/dL)	18.38 (12.51 - 24.01)	22.43 (15.40 - 30.73)	<0.001	16.09 (11.29 - 23.32)	21.60 (14.15 - 29.64)	0.002
INR	1.87 (1.47 - 2.53)	2.10 (1.78 - 2.63)	0.436	1.84 (1.29 - 2.46)	1.99 (1.51 - 2.88)	0.350
Cr (mg/dL)	0.83 (0.67 - 1.09)	0.87 (0.72 - 1.23)	0.061	0.82 (0.69 - 0.96)	0.89 (0.70 - 1.45)	0.020
BUN (mmol/L)	4.26 (3.15 - 6.17)	5.17 (3.42 - 8.85)	0.790	4.07 (3.08 - 6.00)	5.24 (3.51 - 11.16)	0.003

ALT (U/L)	219.00 (52.00 - 638.40)	120.15 (52.55 - 387.85)	0.095	109.50 (56.00 - 315.70)	143.50 (58.10 - 388.00)	0.943
AST (U/L)	197.00 (81.00 - 459.00)	142.55 (84.20 - 295.15)	0.135	125.50 (70.00 - 233.00)	182.50 (102.40 - 453.30)	0.202
AST/ALT	1.01 (0.64 - 1.57)	1.18 (0.69 - 1.98)	0.113	0.98 (0.72 - 1.65)	1.39 (1.00 - 2.09)	0.002
ALB (g/L)	31.05 (28.40 - 34.40)	29.70 (25.85 - 33.00)	0.002	31.55 (27.70 - 34.90)	29.72 (25.80 - 33.90)	0.118
AKP (U/L)	139.00 (109.40 - 183.00)	141.05 (100.10 - 190.25)	0.239	143.50 (116.00 - 200.00)	147.00 (109.00 - 191.00)	0.681
γ-GT (U/L)	82.90 (51.00 - 120.00)	80.80 (52.00 - 124.80)	0.351	80.80 (39.00 - 116.00)	80.15 (55.00 - 158.00)	0.485
WBC (×10 ⁹ /L)	5.75 (4.12 - 8.68)	8.10 (5.86 - 11.83)	<0.001	5.81 (4.46 - 7.11)	7.35 (5.29 - 10.08)	<0.001
PLT (×10 ⁹ /L)	105.00 (66.00 - 145.00)	85.50 (60.00 - 135.50)	0.093	105.50 (74.00 - 159.00)	89.00 (58.00 - 124.00)	0.055
MAP (mmHg)	90.33 (83.67 - 97.33)	87.17 (81.67 - 94.17)	0.041	90.33 (83.33 - 96.67)	89.00 (79.00 - 94.33)	0.028
NL ratio	3.29 (2.24 - 5.17)	5.31 (2.94 - 8.44)	<0.001	3.18 (2.30 - 5.15)	4.22 (2.75 - 7.73)	0.002
HGB (g/L)	124.00 (105.00 - 137.00)	117.50 (99.50 - 130.50)	0.091	120.00 (103.00 - 136.00)	114.00 (91.00 - 127.00)	0.045
N (×10 ⁹ /L)	3.84 (2.60 - 5.52)	5.85 (4.05 - 9.13)	<0.001	3.85 (2.61 - 5.01)	5.38 (3.25 - 7.48)	<0.001
L (×10 ⁹ /L)	1.13 (0.78 - 1.63)	1.11 (0.74 - 1.71)	0.910	1.20 (0.77 - 1.64)	1.25 (0.74 - 1.52)	0.246
K ⁺ (mmol/L)	3.90 (3.57 - 4.16)	3.80 (3.35 - 4.11)	0.226	3.97 (3.60 - 4.31)	3.80 (3.46 - 4.23)	0.472
Na ⁺ (mmol/L)	137.80 (135.60 - 139.90)	135.00 (130.95 - 137.13)	<0.001	137.10 (134.00 - 139.50)	135.00 (132.00 - 140.00)	0.079
CRP (mg/L)	11.30 (6.32 - 16.40)	16.15 (11.28 - 32.18)	<0.001	9.16 (6.20 - 16.00)	17.65 (9.54 - 36.60)	<0.001
PCT (ng/mL)	0.52 (0.23 - 0.85)	0.71 (0.46 - 1.37)	0.321	0.45 (0.19 - 0.73)	0.69 (0.34 - 1.25)	0.056
PT (s)	21.70 (17.50 - 28.78)	24.95 (20.20 - 30.40)	0.250	20.10 (15.40 - 27.30)	23.80 (17.60 - 32.30)	0.194

Note: ACLF, acute-on-chronic liver failure; ALT, alanine aminotransferase; AST, aspartate aminotransferase; AST/ALT, aspartate to alanine aminotransferase ratio; ALB, albumin; AKP, alkaline phosphatase; BUN, blood urea nitrogen; CRP, C-reactive protein; Cr, creatinine; GI bleeding, gastrointestinal bleeding; γ-GT, γ-glutamyl transferase; HE, hepatic encephalopathy; HGB, hemoglobin; HBV, hepatitis B virus; HCV, hepatitis C virus; HEV, hepatitis E virus; INR, international normalized ratio; L, Lymphocyte count; MAP, mean arterial pressure; N, neutrophil count; NL ratio, neutrophil-lymphocyte ratio; NAFLD, nonalcoholic fatty liver disease; PLT, platelet; PCT, procalcitonin; PT, prothrombin time; TB, total bilirubin; WBC, white blood cell count.