

Supplementary Table S6. Comparison of baseline clinical parameters between infected and uninfected non-ACLF patients 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 = 517)	(n = 89)		(n = 214)	(n = 43)	
Age, M (Q ₁ , Q ₃)	49.00 (39.00 - 57.69)	50.74 (42.74 - 60.28)	0.024	47.89 (39.00 - 56.00)	56.30 (47.68 - 65.83)	<0.001
Male, n (%)	370.00 (71.57%)	65.00 (73.03%)	0.776	152.00 (71.03%)	28.00 (65.12%)	0.440
Cirrhosis, n (%)	335.00 (64.80%)	74.00 (83.15%)	<0.001	141.00 (65.89%)	38.00 (88.37%)	0.003
Aetiology, n (%)						
HBV	383.00 (74.08%)	50.00 (56.18%)	<0.001	169.00 (78.97%)	29.00 (67.44%)	0.101
HCV	3.00 (0.58%)	3.00 (3.37%)	0.014	3.00 (1.40%)	0.00 (0.00%)	0.435
HEV	5.00 (0.97%)	1.00 (1.12%)	0.890	2.00 (0.93%)	0.00 (0.00%)	0.525
Alcohol	116.00 (22.44%)	32.00 (35.96%)	0.006	33.00 (15.42%)	10.00 (23.26%)	0.209
Autoimmune	65.00 (12.57%)	5.00 (5.62%)	0.058	21.00 (9.81%)	5.00 (11.63%)	0.719
NAFLD	25.00 (4.84%)	4.00 (4.49%)	0.889	8.00 (3.74%)	1.00 (2.33%)	0.646
Schistosomiasis	4.00 (0.77%)	2.00 (2.25%)	0.195	1.00 (0.47%)	1.00 (2.33%)	0.206
Cryptogenic	8.00 (1.55%)	3.00 (3.37%)	0.234	2.00 (0.93%)	1.00 (2.33%)	0.438
Type of AD, n (%)						
HE			0.838			0.613
0	483.00 (93.42%)	85.00 (95.51%)		201.00 (93.93%)	41.00 (95.35%)	
1	19.00 (3.68%)	2.00 (2.25%)		6.00 (2.80%)	2.00 (4.65%)	
2	13.00 (2.51%)	2.00 (2.25%)		6.00 (2.80%)	0.00 (0.00%)	
3	2.00 (0.39%)	0.00 (0.00%)		1.00 (0.47%)	0.00 (0.00%)	
4	0.00 (0.00%)	0.00 (0.00%)		0.00 (0.00%)	0.00 (0.00%)	
Jaundice	131.00 (25.34%)	44.00 (49.44%)	<0.001	56.00 (26.17%)	16.00 (37.21%)	0.141
Ascites	206.00 (39.85%)	64.00 (71.91%)	<0.001	82.00 (38.32%)	33.00 (76.74%)	<0.001
GI bleeding	74.00 (14.31%)	10.00 (11.24%)	0.438	40.00 (18.69%)	9.00 (20.93%)	0.733
Laboratory data, M (Q ₁ , Q ₃)						
TB (mg/dL)	2.26 (1.25 - 5.15)	4.94 (2.63 - 9.63)	<0.001	2.29 (1.27 - 5.11)	2.91 (1.50 - 6.46)	0.755
INR	1.31 (1.15 - 1.54)	1.51 (1.31 - 1.82)	<0.001	1.30 (1.16 - 1.56)	1.53 (1.36 - 1.76)	0.001
Cr (mg/dL)	0.76 (0.62 - 0.88)	0.78 (0.62 - 1.03)	0.173	0.77 (0.64 - 0.89)	0.85 (0.69 - 1.10)	0.054
BUN (mmol/L)	4.30 (3.34 - 5.72)	5.00 (3.66 - 7.10)	0.157	4.53 (3.60 - 5.96)	5.11 (4.10 - 7.35)	0.161

ALT (U/L)	77.90 (30.40 - 330.00)	42.40 (26.00 - 104.26)	0.323	81.00 (30.60 - 360.00)	39.30 (24.30 - 171.00)	0.652
AST (U/L)	87.00 (44.00 - 227.00)	76.00 (47.10 - 150.00)	0.785	89.95 (42.10 - 302.10)	59.00 (40.00 - 134.40)	0.125
AST/ALT	1.10 (0.68 - 1.63)	1.50 (1.11 - 2.19)	0.020	1.09 (0.64 - 1.49)	1.35 (1.04 - 1.85)	0.038
ALB (g/L)	33.10 (29.20 - 37.00)	27.00 (23.90 - 31.80)	<0.001	33.50 (28.80 - 38.20)	29.70 (26.80 - 32.90)	<0.001
AKP (U/L)	120.00 (89.00 - 163.00)	129.50 (92.00 - 155.00)	0.287	117.85 (85.70 - 156.00)	136.00 (88.90 - 169.00)	0.501
γ-GT (U/L)	88.00 (37.00 - 169.00)	102.10 (39.00 - 164.00)	0.682	81.10 (33.00 - 149.00)	61.00 (24.00 - 157.00)	0.252
WBC (×10 ⁹ /L)	4.52 (3.18 - 5.87)	6.11 (4.09 - 9.16)	<0.001	4.42 (3.10 - 5.90)	5.00 (3.54 - 8.37)	0.042
PLT (×10 ⁹ /L)	96.00 (60.00 - 153.00)	79.00 (52.00 - 123.00)	0.243	101.00 (59.00 - 154.00)	77.00 (51.00 - 120.00)	0.814
MAP (mmHg)	88.33 (83.33 - 95.00)	86.67 (80.00 - 93.33)	0.039	89.67 (83.33 - 96.67)	89.00 (82.00 - 95.00)	0.213
NL ratio	2.01 (1.34 - 2.91)	3.32 (2.05 - 6.31)	<0.001	1.94 (1.22 - 3.11)	3.72 (2.48 - 5.56)	0.002
HGB (g/L)	117.00 (99.00 - 135.00)	108.00 (89.00 - 123.00)	0.004	121.00 (99.00 - 137.00)	111.00 (78.00 - 124.00)	0.005
N (×10 ⁹ /L)	2.47 (1.74 - 3.56)	4.07 (2.60 - 6.75)	<0.001	2.43 (1.62 - 3.47)	3.38 (2.16 - 6.12)	0.002
L (×10 ⁹ /L)	1.24 (0.84 - 1.75)	1.15 (0.85 - 1.84)	0.653	1.23 (0.78 - 1.87)	1.00 (0.69 - 1.49)	0.502
K ⁺ (mmol/L)	3.89 (3.57 - 4.13)	3.88 (3.40 - 4.13)	0.302	3.90 (3.62 - 4.16)	3.68 (3.40 - 4.08)	0.916
Na ⁺ (mmol/L)	139.00 (137.00 - 141.30)	137.00 (133.00 - 139.80)	<0.001	140.00 (137.00 - 141.60)	137.50 (134.00 - 140.70)	0.981
CRP (mg/L)	4.70 (2.40 - 9.82)	17.30 (9.70 - 33.70)	<0.001	5.03 (2.80 - 10.80)	13.80 (6.36 - 32.70)	0.005
PCT (ng/mL)	0.15 (0.09 - 0.30)	0.27 (0.14 - 0.63)	0.022	0.19 (0.11 - 0.42)	0.32 (0.13 - 1.04)	0.120
PT (s)	15.10 (13.10 - 17.60)	18.10 (15.60 - 20.80)	<0.001	15.20 (13.50 - 17.70)	17.40 (15.30 - 20.00)	0.001

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.