

**Supplementary Table 2.** Comparison of characteristics on admission between non-survivors and survivors in HBV-ACLF patients of the derivation cohort stratified by precipitating events

Variable	Only HBV reactivation			Other precipitating events		
	Non-survivor (n=13)	Survivor (n=57)	P-value	Non-survivor (n=15)	Survivor (n=53)	P-value
Age (years)	48.00±11.43	43.35±12.36	0.219	50.47±10.64	45.11±13.23	0.155
Gender, female/male	3/10	5/52	0.161	3/12	11/42	0.949
Ascites, mild/serve	4/1	19/11	0.528	2/4	17/11	0.361
Cirrhosis	7 (53.8)	31 (54.4)	0.972	11 (73.3)	36 (67.9)	0.762
HE, mild/serve	4/4	0/1	<0.001	3/5	4/0	<0.001
CRP (mg/L)	11.35 (7.83–16.97)	9.35 (6.10–11.90)	0.108	11.10 (6.40–15.30)	10.00 (5.60–14.95)	0.790
WBC ( $\times 10^9$ /L)	7.60 (5.45–9.85)	6.80 (5.40–8.45)	0.445	7.80 (5.60–9.60)	5.90 (4.30–7.75)	0.039
Neutrophil ( $\times 10^9$ /L)	5.50 (3.35–7.70)	4.30 (3.35–5.95)	0.330	5.80 (4.00–7.80)	3.70 (2.65–5.30)	0.005
RBC ( $\times 10^{12}$ /L)	4.39±0.51	4.29±0.62	0.573	3.91±0.91	3.76±0.87	0.581
Platelet ( $\times 10^9$ /L)	92.00±40.62	124.09±56.83	0.059	98.27±50.35	113.62±63.07	0.389
Total protein (g/L)	59.06±6.76	59.12±9.54	0.984	57.05±3.42	58.59±9.39	0.330
Albumin (g/L)	32.31±4.14	31.93±4.08	0.764	32.60±3.56	30.53±5.40	0.166
ALT (U/L)	372.00 (208.00–1094.00)	432.00 (137.50–848.00)	0.838	227.00 (78.00–588.00)	114.00 (58.50–439.50)	0.340
AST (U/L)	399.00 (157.50–852.50)	247.00 (106.50–471.50)	0.065	156.00 (69.00–273.00)	104.00 (68.00–193.50)	0.446
Serum bilirubin (mg/dL)	20.82 (17.16–20.82)	15.38 (11.43–19.53)	0.022	23.39 (18.60–31.29)	13.45 (7.72–21.11)	0.001
Creatinine (mg/dL)	0.64 (0.62–0.83)	0.72 (0.64–0.81)	0.602	0.72 (0.50–0.97)	0.76 (0.67–0.88)	0.416
Potassium (mmol/L)	4.51±0.74	4.27±0.56	0.208	4.17±0.39	4.11±0.69	0.633
Sodium (mmol/L)	136.54±4.79	138.42±3.05	0.196	137.80±5.44	137.06±4.28	0.578
PT-INR	3.42 (2.75–3.64)	1.94 (1.67–2.31)	<0.001	2.67 (1.92–3.18)	1.84 (1.59–2.21)	0.004
Log <sub>10</sub> (DNA)	5.99 (4.90–7.00)	5.79 (4.87–6.92)	0.815	3.45 (2.80–3.99)	3.16 (2.70–3.67)	0.448
Log <sub>10</sub> (HBsAg)	3.28 (0.88–4.07)	3.34 (2.45–3.97)	0.483	1.32 (0.32–2.35)	2.29 (0.90–2.94)	0.145
VDBP ( $\mu$ g/mL)	28.39 (19.64–57.52)	53.98 (40.39–68.38)	0.020	31.25 (27.70–45.59)	53.99 (36.63–73.85)	0.005

Values are presented as mean±standard deviation, number (range), or number (%) unless otherwise indicated.

HBV-ACLF, hepatitis B virus-related acute-on-chronic liver failure; HE, hepatic encephalopathy; CRP, C-reactive protein; WBC, white blood cell; RBC, red blood cell; ALT, alanine aminotransferase; AST, aspartate amino transferase; PT-INR, prothrombin time-international normalized ratio; VDBP, vitamin D-binding protein.