

Table S1. Analyses of potential predictors for the composite endpoint of death or need for liver transplantation within 28-days, 90-days or 365-days after ICU admission in the entire cohort of patients with concomitant need for intensive care treatment using multiple logistic regression models. Only significant variables in univariable logistic regression analyses were included into the models. Not significant in univariable analyses were age, infection at ICU admission and sodium. Bold values indicate level of significance ($p < 0.05$). Abbreviations: OD: odds ratio; CLIF-C: chronic liver failure consortium; OF: organ failure; CRP: C-reactive protein; WBC: white blood cells.

	Model 1		Model 2		Model 3	
	28-days survival		90-days survival		365-days survival	
	OR	p-value	OR	p-value	OR	p-value
CLIF-C OF score	1.305 (1.115 – 1.527)	0.001	1.336 (1.106 – 1.615)	0.003	1.283 (1.055 – 1.561)	0.012
platelets	0.996 (0.992 – 1.001)	0.142	0.995 (0.989 – 1.000)	0.051	0.999 (0.993 – 1.004)	0.631
CRP	1.007 (1.001 – 1.013)	0.034	1.005 (0.998 – 1.013)	0.186	1.001 (0.994 – 1.008)	0.748
WBC	1.004 (0.951 – 1.061)	0.876	1.014 (0.946 – 1.086)	0.699	1.007 (0.938 – 1.081)	0.854

Table S2. Analyses of potential predictors for the composite endpoint of death or need for liver transplantation within 28-days, 90-days or 365-days after ICU admission in the subgroup of patients with ACLF and concomitant need for intensive care support using multiple logistic regression models. White blood cells (WBC) was not included due to collinearity with CLIF-C ACLF score. Only significant variables in univariable logistic regression analyses were included into the models. Not significant in univariable analyses were age, infection at ICU admission and sodium. Bold values indicate level of significance ($p < 0.05$). Abbreviations: OR: odds ratio; CLIF-C: chronic liver failure consortium; ACLF: acute-on-chronic liver failure; CRP: C-reactive protein.

	Model 1		Model 2		Model 3	
	28-days survival		90-days survival		365-days survival	
	OR	p-value	OR	p-value	OR	p-value
CLIF-C ACLF score	1.095 (1.041 – 1.151)	<0.001	1.092 (1.025 – 1.164)	0.007	1.079 (1.009 – 1.154)	0.027
Platelets	0.995 (0.990 – 1.001)	0.081	0.994 (0.998 – 1.000)	0.051	0.997 (0.991 – 1.003)	0.349
CRP	1.005 (0.997 – 1.013)	0.198	1.001 (0.992 – 1.010)	0.859	0.997 (0.989 – 1.006)	0.516