

Table s1: Distribution of liver tests on admission for the study cohort

	Reference Interval	Low	Normal	High
Albumin	34-48 g/L	1625 (39.1)	2516 (60.5)	19 (0.5)
Bilirubin	2-24 µmol/L	6 (0.1)	3869 (93)	285 (6.9)
ALP	30-110 U/L	16 (0.4)	2940 (70.7)	1204 (28.9)
GGT	≤60 U/L		2713 (65.2)	1447 (34.8)
ALT	≤55 U/L		3568 (85.8)	592 (14.2)
AST	≤45 U/L		3085 (74.2)	1075 (25.8)

ALP- alkaline phosphatase; GGT- gamma glutamyl transferase; ALT- alanine aminotransferase; AST- aspartate aminotransferase. Data are presented as number (percentage).

Table s2: Extent of intra-admission change in liver tests according to mean direction of change

	Decrement		Increment	
	Extent of Change	Number (%)	Extent of Change	Number (%)
Albumin (g/L)	6 (10, 4)	3204 (77.0)	4 (2, 6)	888 (21.3)
Bilirubin (μmol/L)	5 (3, 9)	2248 (54.0)	4 (2, 8)	1785 (42.9)
ALP (U/L)	19 (10, 33)	2417 (58.1)	26 (11, 63)	1715 (41.2)
GGT (U/L)	13 (5, 33)	1810 (43.5)	21 (8, 64)	2289 (55.0)
ALT (U/L)	9 (5, 23)	1911 (45.9)	15 (6, 41)	2192 (52.7)
AST (U/L)	13 (6, 33)	2103 (50.6)	17 (7, 45)	2011 (48.3)

ALP- alkaline phosphatase; GGT- gamma glutamyl transferase; ALT- alanine aminotransferase; AST- aspartate aminotransferase. Data are presented as median (interquartile range) or number (percentage).

Table s3: Effects of liver tests taken at admission and intra-admission changes in liver tests upon 30-day mortality

		Model 1: Without Liver Tests		Model 2: With Admission Liver Tests		Model 3: With Intra-admission Changes in Liver Tests	
Deceased at 30 days		OR (95% CI)	P-value	OR (95% CI)	P-value	OR (95% CI)	P-value
Age		1.06 (1.04, 1.08)	<0.001	1.06 (1.04, 1.08)	<0.001	1.06 (1.04, 1.08)	<0.001
Female		0.86 (0.64, 1.17)	0.34	0.85 (0.63, 0.87)	0.29	0.84 (0.62, 1.14)	0.26
Charlson Index	0	1	0.05	1	0.05	1	0.05
	1	1.63 (0.99, 2.66)		1.62 (0.99, 2.66)		1.62 (0.99, 2.67)	
	≥2	2.8 (1.75, 4.49)		2.82 (1.51, 2.46)		2.64 (1.64, 4.25)	
Heart Failure		1.34 (0.96, 1.86)	0.088	1.31 (0.94, 1.82)	0.12	1.32 (0.94, 1.84)	0.11
Effect of baseline albumin (per 1g/L)							
Baseline <34g/L				0.94 (0.90, 0.98)	0.006	0.90 (0.86, 0.95)	<0.001
Baseline 34-48g/L				0.97 (0.92, 1.02)	0.25	0.93 (0.88, 0.98)	0.012
Baseline >48g/L				1.22 (0.25, 2.53)	0.69	1.10 (0.40, 3.01)	0.86
Effect of intra-admission change in albumin (per 1 g/L change)							
Decrement						1.10 (1.06, 1.14)	<0.001
Increment						0.98 (0.91, 1.05)	0.57
Effect of intra-admission change in ALT (per 100 U/L change)							
Decrement						0.99 (0.88, 1.11)	0.89
Increment						1.08 (1.02, 1.13)	0.005

OR- Odds Ratio (95% Confidence Interval)