

Table S1. Multivariable Logistic Regression Model for the Association between Baseline Demographic, Clinical and Laboratory Markers and Decompensation.

Predictors	Overall Cohort		Tertiles Defined by Symptom Duration					
	All Patients (n=4,103)		≤4 days (n=599)		4-8 days (n=685)		>8 days (n=589)	
	Crude OR (95%CI)	Adjusted OR (95%CI)	Crude OR (95%CI)	Adjusted OR (95%CI)	Crude OR (95%CI)	Adjusted OR (95%CI)	Crude OR (95%CI)	Adjusted OR (95%CI)
Comorbidities								
Hypertension	5.15** (4.35, 6.09)	0.92 (0.66, 1.3)	1.83* (1.27, 2.64)	1.13 (0.59, 2.16)	1.5* (1.08, 2.08)	0.89 (0.49, 1.62)	1.54* (1.06, 2.25)	0.74 (0.39, 1.4)
Diabetes	3.42** (2.9, 4.04)	0.75 (0.55, 1.02)	1.2 (0.87, 1.67)		1.55* (1.12, 2.15)	0.55 (0.3, 1.01)	1.25 (0.85, 1.84)	
Pulmonary Disease	2.26** (1.83, 2.79)	1.01 (0.7, 1.46)	1.12 (0.74, 1.67)		0.80 (0.53, 1.2)		1.32 (0.83, 2.11)	
Renal Disease	5.66** (4.63, 6.90)	3.64** (2.49, 5.32)	1.42 (0.97, 2.07)		4.39** (2.96, 6.5)	6.9** (3.53, 13.5)	3.2** (2.01, 5.08)	2.76* (1.36, 5.61)
Liver Disease	1.26 (0.84, 1.89)		0.54 (0.26, 1.14)		0.74 (0.29, 1.91)		0.71 (0.3, 1.65)	
Vital signs and laboratory parameters								
Body Mass Index	1.00 (1.00, 1.00)		0.99 (0.97, 1.01)		1.00 (1.00, 1.00)		0.99 (0.97, 1.01)	
ORS	2.71** (2.4, 3.06)	1.68** (1.40, 2.02)	2.86** (2.23, 3.66)	1.44 (0.96, 2.15)	2.47** (1.99, 3.07)	1.93** (1.4, 2.66)	2.86** (2.18, 3.75)	1.87* (1.26, 2.78)
Initial Temperature	0.97 (0.92, 1.02)	1.04 (0.95, 1.13)	0.95 (0.86, 1.05)		0.93* (0.85, 1.03)	1.02 (0.87, 1.18)	1.03 (0.92, 1.16)	
WBC Count	1.09** (1.07, 1.11)	1.00 (0.97, 1.02)	1.10** (1.06, 1.14)	0.91* (0.83, 0.99)	1.12** (1.07, 1.17)	1.02 (0.98, 1.06)	1.07* (1.03, 1.11)	0.99 (0.95, 1.03)
Neutrophil %	1.07** (1.05, 1.08)		1.08** (1.06, 1.09)	1.02 (0.95, 1.09)	1.06** (1.04, 1.08)		1.06** (1.04, 1.09)	
Lymphocyte %	0.93** (0.92, 0.94)		0.92** (0.90, 0.94)	0.99 (0.90, 1.07)	0.92** (0.90, 0.95)		0.94** (0.91, 0.96)	
NLR	1.07** (1.05, 1.08)	1.00 (0.99, 1.01)	1.01 (0.99, 1.03)		1.10** (1.07, 1.14)	1.01 (0.97, 1.05)	1.13** (1.08, 1.17)	1.02 (0.97, 1.07)
Hemoglobin	0.95* (0.92, 0.99)	0.97 (0.90, 1.04)	0.96 (0.89, 1.02)		0.95 (0.88, 1.02)		0.99 (0.9, 1.08)	

Platelet Count	1.00 (1.00, 1.00)		1.00 (1.00, 1.00)		1.00 (1.00, 1.00)		1.00 (1.00, 1.00)
Creatinine	1.09** (1.05, 1.13)	0.94 (0.88, 1.00)	1.01 (0.95, 1.08)		1.05 (0.99, 1.12)		1.07 (0.97, 1.17)
Albumin	0.3** (0.25, 0.36)	0.67* (0.48, 0.92)	0.26** (0.19, 0.37)	0.51* (0.28, 0.92)	0.35** (0.25, 0.5)	0.90 (0.51, 1.6)	0.26** (0.17, 0.39) 0.71 (0.37, 1.36)
AST	1.01** (1.00, 1.01)	1.00 (1.00, 1.01)	1.00* (1.00, 1.01)	1.00 (1.00, 1.00)	1.01* (1.00, 1.01)	1.00 (1.00, 1.01)	1.01** (1.00, 1.01) 1.01 (1.00, 1.02)
ALT	1.00* (1.00, 1.00)	1.00 (0.99, 1.00)	1.00 (1.00, 1.00)		1.00 (1.00, 1.00)		1.00* (1.00, 1.01) 1.00 (0.99, 1.01)
ESR	1.01** (1.01, 1.01)	0.99* (0.99, 1.00)	1.01* (1.00, 1.02)	0.99 (0.99, 1.00)	1.01* (1.01, 1.02)	1.00 (0.99, 1.01)	1.01 (1.00, 1.01)
CRP	1.01** (1.01, 1.01)	1.00** (1.00, 1.01)	1.01** (1.01, 1.01)	1.00* (1.00, 1.01)	1.01** (1.01, 1.01)	1.00* (1.00, 1.01)	1.01** (1.01, 1.01) 1.00 (1.00, 1.01)
LDH	1.00** (1.00, 1.00)	1.00** (1.00, 1.00)	1.00** (1.00, 1.01)	1.00* (1.00, 1.01)	1.00** (1.00, 1.00)	1.00* (1.00, 1.00)	1.00** (1.00, 1.00) 1.00 (1.00, 1.00)
Ferritin	1.00** (1.00, 1.00)		1.00* (1.00, 1.00)		1.00* (1.00, 1.00)		1.00* (1.00, 1.00)
D-Dimer	1.00 (1.00, 1.00)		1.00 (1.00, 1.00)		1.18** (1.12, 1.24)	1.08* (1.01, 1.15)	1.00 (1.00, 1.00)
Procalcitonin	1.02* (1.01, 1.03)	1.01 (0.99, 1.02)	1.01 (1.00, 1.03)		1.06* (1.01, 1.11)	1.00 (0.97, 1.02)	1.08* (1.02, 1.14) 1.00 (0.97, 1.03)
IL-6	1.02** (1.02, 1.02)	1.01** (1.01, 1.02)	1.02** (1.01, 1.03)	1.01 (1.00, 1.01)	1.02** (1.01, 1.02)	1.01 (1.00, 1.01)	1.03** (1.02, 1.04) 1.02** (1.01, 1.03)
Troponin	1.01** (1.00, 1.01)	1.00 (1.00, 1.00)	1.00** (1.00, 1.01)	1.00 (1.00, 1.01)	1.01** (1.00, 1.01)	1.00 (0.99, 1.00)	1.00 (1.00, 1.00)

*Wald Chi Square $p < 0.05$; **Wald Chi Square $p < 0.01$

Abbreviations: ORS, oxygen rank severity; WBC, white blood cell; NLR, neutrophil to lymphocyte ratio; AST, aspartate aminotransferase; ALT, alanine aminotransferase; PT, prothrombin time; PTT, partial thromboplastin time; CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; LDH, lactate dehydrogenase; IL-6, interleukin-6