

Supplementary Table 1 Spearman Correlation Matrix and Variance Inflation Factors for Candidate Variables in the Multivariable Cox Model (Training Cohort, n = 293)

Variable	mSIS	NLR	Albumin	SIRI	VIF
mSIS	1.000	0.322**	−0.687**	0.318**	1.86
NLR	0.322**	1.000	−0.080	0.821**	2.86
Albumin	−0.687**	−0.080	1.000	−0.157**	1.73
SIRI	0.318**	0.821**	−0.157**	1.000	2.78

**P < 0.01. NLR–Albumin correlation was not statistically significant ($\rho = -0.080$, P = 0.170). All VIFs were below the conventional threshold of 5, indicating no significant multicollinearity. Abbreviations: mSIS, modified systemic inflammation score; NLR, neutrophil-to-lymphocyte ratio; SIRI, systemic inflammation response index; VIF, variance inflation factor.