

Supplementary Table 3. Improvement of reclassification and discrimination of 90-day mortality with addition of systemic inflammation-related biomarkers to SOFA scores

Model	C-statistics (95% CI)	Model performance compared to baseline model					
		Δ C-statistics (95% CI)	p-value	NRI (95% CI)	p-value	IDI (95% CI)	p-value
SOFA	0.63 (0.61–0.65)	-	-	-	-	-	-
SOFA + CAR	0.64 (0.62–0.66)	0.00 (0.00–0.01)	0.04	0.06 (–0.02 to 0.10)	0.13	0.01 (0.00–0.02)	0.03
SOFA + PAR	0.63 (0.62–0.65)	0.00 (0.00–0.00)	0.1	0.04 (0.00 to 0.10)	0.11	0.00 (0.00–0.01)	0.18
SOFA + PCR	0.64 (0.62–0.65)	0.00 (0.00–0.00)	<0.001	–0.07 (–0.15 to 0.22)	0.65	0.00 (0.00–0.00)	0.25
SOFA + CALLY	0.63 (0.62–0.65)	0.00 (0.00–0.00)	0.03	0.02 (–0.09 to 0.18)	0.59	0.00 (0.00–0.01)	0.29
SOFA + NAR	0.63 (0.61–0.65)	0.00 (0.00–0.00)	0.06	0.02 (–0.04 to 0.06)	0.61	0.00 (0.00–0.00)	0.32
SOFA + LCR	0.63 (0.62–0.65)	0.00 (0.00–0.00)	0.19	–0.01 (–0.09 to 0.14)	0.63	0.00 (0.00–0.01)	0.21
SOFA + PLR	0.63 (0.61–0.65)	0.00 (0.00–0.00)	0.7	0.03 (–0.04 to 0.07)	0.27	0.00 (0.00–0.01)	0.03
SOFA + NLR	0.63 (0.61–0.65)	0.00 (0.01–0.00)	<0.001	–0.02 (–0.05 to 0.06)	>0.99	0.00 (0.00–0.00)	0.97
SOFA + SII	0.63 (0.61–0.65)	0.00 (0.00–0.00)	<0.001	0.02 (–0.05 to 0.08)	0.51	0.00 (0.00–0.00)	>0.99
SOFA + IBI	0.63 (0.61–0.65)	0.00 (0.00–0.00)	0.003	0.02 (–0.04 to 0.07)	0.62	0.00 (0.00–0.00)	>0.99
SOFA + NCS	0.63 (0.62–0.65)	0.00 (0.00–0.00)	0.007	0.04 (–0.04 to 0.07)	0.55	0.00 (0.00–0.00)	0.31
SOFA + NPS	0.64 (0.62–0.66)	0.01 (0.00–0.01)	<0.001	0.08 (0.00 to 0.12)	0.047	0.00 (0.00–0.01)	0.09
SOFA + LAS	0.63 (0.62–0.65)	0.00 (0.00–0.00)	0.04	–0.05 (–0.09 to 0.12)	0.76	0.00 (0.00–0.00)	>0.99

CALLY, C-reactive protein-albumin-lymphocyte index; CAR, C-reactive protein-to-albumin ratio; CI, confidence interval; IBI, inflammatory burden index; IDI, integrated discrimination index; LAS, lymphocyte-albumin score; LCR, lymphocyte-to-C-reactive protein ratio; NAR, neutrophil-to-albumin ratio; NCS, neutrophil-C-reactive protein score; NLR, neutrophil-to-lymphocyte ratio; NPS, neutrophil-platelet score; NRI, net reclassification index; PAR, platelet-to-albumin ratio; PCR, platelet-to-C-reactive protein ratio; PLR, platelet-to-lymphocyte ratio; SII, systemic immune-inflammation index; SOFA, Sequential Organ Failure Assessment.