

Appendix – qSOFA, SIRS, and NEWS for predicting in-hospital mortality and ICU admission in emergency admissions treated as sepsis

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Supplementary tables

Prognostic accuracy of scoring system for composite outcome

Table e1. Prognostic accuracy of scoring systems (95% CI) for predicting composite of in-hospital death or ICU admission in patients with suspected sepsis.

	qSOFA	SIRS	NEWS
Sensitivity, %	37 (32-43)	80 (75-84)	74 (69-79)
Specificity, %	80 (78-82)	21 (19-23)	44 (41-46)
Positive predictive value, %	27 (22-31)	17 (15-19)	21 (18-23)
Negative predictive value, %	87 (85-88)	84 (80-88)	90 (87-92)
Positive likelihood ratio	1.83 (1.53-2.18)	1.01 (0.95-1.08)	1.32 (1.22-1.43)
Negative likelihood ratio	0.79 (0.72-0.86)	0.96 (0.75-1.22)	0.59 (0.49-0.72)
AUROC	0.62 (0.59-0.66)	0.50 (0.46-0.53)	0.65 (0.62-0.69)

All analyses except AUROC used thresholds of qSOFA ≥ 2 , SIRS ≥ 2 , and NEWS ≥ 5 .

Prognostic accuracy of scoring systems across values

Table e2. Prognostic accuracy of qSOFA across all values.

Score (n)	In-hospital death		ICU admission	
	Sensitivity, %	Specificity, %	Sensitivity, %	Specificity, %
≥1 (1120)	77	41	75	39
≥2 (421)	37	79	36	77
3 (84)	9	96	6	95

Table e3. Prognostic accuracy of SIRS across all values.

Score (n)	In-hospital death		ICU admission	
	Sensitivity, %	Specificity, %	Sensitivity, %	Specificity, %
≥1 (1550)	86	15	94	15
≥2 (1436)	80	21	85	21
≥3 (742)	38	59	45	59
4 (214)	7	93	6	93

Table e4. Prognostic accuracy of NEWS across all values.

Score (n)	In-hospital death		ICU admission	
	Sensitivity, %	Specificity, %	Sensitivity, %	Specificity, %
≥1 (1730)	96	5	96	5
≥2 (1600)	93	13	96	12
≥3 (1443)	88	22	96	21
≥4 (1256)	78	33	87	31
≥5 (1076)	74	43	77	41
≥6 (879)	66	55	68	52
≥7 (654)	56	67	55	65
≥8 (464)	44	78	43	75
≥9 (318)	33	85	28	83
≥10 (194)	26	92	19	90
≥11 (136)	18	94	15	93
≥12 (85)	14	97	13	96
≥13 (53)	10	98	8	97
≥14 (34)	7	99	4	98
≥15 (22)	5	99	2	99
≥16 (9)	2	100	0	99
17 (4)	1	100	0	100