

Supplementary Table 1 Multivariate analysis of risk factors for acute kidney injury with quadratic continuous variables

	B	SE	P value	Odds ratio	95%CI for EXP(B)	
					Lower	Upper
Neutrophils	6.52×10^{-6}	0.07	< 0.0001	1.00	1.00	1.00
Neutrophils-1	-9.14×10^{-11}	0.0	0.007	1.00	1.00	1.00
Creatinine	0.14	0.006	< 0.0001	1.15	1.14	1.17
Creatinine-1	-0.007	0.0	< 0.0001	0.99	0.992	0.994
Total Bilirubin	-0.009	0.005	0.041	0.99	0.98	1.001
Total Bilirubin-1	1.3×10^{-4}	0.0	0.523	1.00	1.00	1.001
Potassium	-0.038	0.003	0.205	0.96	0.90	1.02
Potassium-1	0.003	0.003	0.383	1.003	0.997	1.009
Monocytes	-1.28×10^{-6}	0.0	0.85	1.00	1.00	1.00
Monocytes-1	-7.8×10^{-11}	0.0	0.38	1.00	0.0006	1.00
BUN	0.004	0.001	< 0.0001	1.004	1.003	1.005
BUN-1	-1.9×10^{-5}	0.0	< 0.0001	1.00	1.00	1.00
SOFA	0.027	0.004	< 0.0001	1.027	1.019	1.036
SOFA-1	-0.001	0.0	< 0.0001	0.99	0.99	1.00

Variables with very small coefficients have odds ratio close to 1. Variables with very small standard errors have values close to zero. BUN: Blood urea nitrogen; SOFA: Sequential Organ Failure Assessment Score.

Supplementary Table 2 Cubic spline analysis of variables which demonstrate non-linearity based on squaring of terms

Predictor	Spline term	Coef.	SE	P value	95%CI	
					Lower	Upper
Neutrophils	Spline1	0.033	0.01	0.015	0.01	0.06

		Spline 2	-0.03	0.06	0.58	-0.14	0.08
		Spline 3	0.05	0.15	0.75	-0.25	0.35
Creatinine		Spline 1	2.76	0.16	< 0.001	2.44	3.08
		Spline 2	-23.94	3.01	< 0.001	-30.01	-17.87
		Spline 3	39.59	5.54	< 0.001	28.72	50.46
Blood urea nitrogen		Spline 1	0.07	0.01	< 0.001	0.06	0.08
		Spline 2	-0.15	0.07	0.03	-0.29	-0.02
		Spline 3	0.18	0.13	0.17	-0.076	0.44
Sequential Organ Failure Assessment Score		Spline 1	0.15	0.02	< 0.001	0.11	0.20
		Spline 2	-0.19	0.08	0.02	-0.35	-0.02
		Spline 3	0.45	0.26	0.08	-0.05	0.96

Supplementary Table 3 Pattern matrix of principal component analysis

Variables	Component		
	1	2	3
Aggregate index of systemic inflammation	0.83	-0.02	-0.03
Systemic inflammation response index	0.82	-0.02	-0.03
Monocyte-to-lymphocyte ratio	0.81	-0.05	-0.04
Systemic inflammation index	0.81	0.03	-0.01
Neutrophil-to-lymphocyte ratio	0.77	0.07	-0.001
Platelet-to-lymphocyte ratio	0.56	-0.01	-0.04
Lactate-to-albumin ratio	-0.01	0.78	-0.23
Albumin	-0.03	-0.69	-0.14
Neutrophil-percentage-to-albumin ratio	0.17	0.60	0.12
Lactic acid	-0.10	0.59	-0.29
Blood urea nitrogen	0.05	0.41	0.30
Hemoglobin	0.01	-0.40	-0.06
Serum creatinine	0.01	0.37	0.02
International normalized ratio	0.01	0.33	0.03

Potassium	0.02	0.28	0.05
Aspartate transaminase	-0.03	0.22	-0.11
Chloride	-0.15	0.02	0.88
Sodium	-0.16	-0.06	0.85
Age	0.07	0.07	0.37
