

Supplementary Table 1 Basic information of sepsis patients of different stages

Items	Control (n=25)	Sepsis (n=38)	Severe Sepsis (n=41)	Septic Shock (n=33)	F value/ $\chi^2$ value	P value
Age (Year-old)	68.88±7.80	71.03±7.88	71.15±9.59	73.58±8.39	1.20	0.312
Gender (Male/Female)	14/11	20/18	22/19	16/17	0.71	0.871
Complications [Case (Percentage)]						
Hypertension	0	12(32)	9(22)	6(18)	1.90	0.387
Diabetes Mellitus	0	11(29)	13(32)	10(30)	0.12	0.943
Chronic CVD	0	4(11)	5(12)	7(21)	1.78	0.410
COPD	0	5(13)	7(17)	5(15)	0.24	0.889
Chronic hepatic diseases	0	4(11)	5(12)	4(12)	0.07	0.967
Others	0	2(5)	2(4)	1(3)	0.23	0.890
Primary Infection [Case (Percentage)]						
Lung	0	13(34)	12(30)	10 (30)	0.24	0.885
Urinary tract	0	7(18)	8(20)	8(24)	0.61	0.736
Gallbladder and Pancreas	0	4(11)	7(17)	7(21)	2.13	0.344
Peritoneal cavity	0	5(13)	5(12)	3(9)	0.92	0.631
Gastrointestinal tract	0	6(16)	6(15)	4(12)	0.63	0.729
Others	0	3(8)	3(7)	1(3)	1.21	0.547
PCT (ng mL <sup>-1</sup> )	0.37±0.41	10.84±4.57	18.12±10.36	27.12±13.56	46.64	<0.05
Lactate (mmol L <sup>-1</sup> )	1.61±0.50	3.19±1.69	7.72±2.45	10.30±3.69	117.20	<0.05
SOFA Score	-	3.95±0.84	7.93±1.54	9.85±2.01	290.03	<0.05
Serum Creatinine ( $\mu\text{mol}\cdot\text{L}^{-1}$ )	71.46±13.21	94.36±24.59	121.60±56.27	186.95±74.95	30.17	<0.05

Blood urea nitrogen (mmol L <sup>-1</sup> )	7.95 ±1.48	9.23 ±2.01	13.43 ±9.57	28.80 ±16.48	65.56	<0.05
Mechanical Ventilation	0	3 (8)	13 (32)	29 (88)	48.92	<0.05
[Case (Percentage)]						
Secondary AKI	0	4 (11)	18 (44)	33 (100)	73.42	<0.05
[Case (Percentage)]						
Death within 28 days	0	4 (11)	16 (39)	18 (65)	17.59	<0.05
[Case (Percentage)]						

Supplementary Table 2 Multiple factor logistic regression analysis

items	B	S.E	Wals	p	OR (95%CI)
0h-sNGAL	0.040	0.018	4.944	0.026	0.961 (0.927_1.995)
PCT	0.000	0.027	0.000	0.993	1.000 (0.949_1.054)
lactate	-0.369	0.169	4.475	0.029	0.691 (0.496_0.963)
SOFA	-0.198	0.200	0.979	0.322	0.821 (0.555_1.214)
age	-0.070	0.038	3.295	0.069	0.933 (0.865_1.006)
intercept	20.147	5.449	13.572	0.000	