Supplementary materials

Table S1. The proportion of missing values of the extracted variables

Figure S1. Association between Log2-EASIX and 28-day mortality in patients with sepsis. Data were fitted by a multivariable-adjusted restricted cubic spline Cox's regression. A linear association between Log2-EASIX and 28-day mortality was observed with a trend to rise. Log2-EASIX was entered as continuous variable, variables in model 4 of Table 2 were adjusted. The curves line and shaded ribbons around represented the estimated values and their corresponding 95% confidence intervals. EASIX, Endothelial Activation and Stress Index.

Figure S2. Association between Log2-EASIX and 90-day mortality in patients with sepsis. Data were fitted by a multivariable-adjusted restricted cubic spline Cox's regression. A linear association between Log2-EASIX and 90-day mortality was observed with a trend to rise. Log2-EASIX was entered as continuous variable, variables in model 4 of Table 2 were adjusted. The curves line and shaded ribbons around represented the estimated values and their corresponding 95% confidence intervals. EASIX, Endothelial Activation and Stress Index.

Figure S3. Forest plot for subgroup analysis of the association between Log2-EASIX and 90-day mortality in sepsis patients. EASIX, Endothelial Activation and Stress Index; HR, hazard ratio; CI, confidence interval; SAPS II, Simplified Acute Physiology Score II; SOFA, Sequential Organ Failure Assessment.

Table S1 The proportion of missing values of the extracted variables

	Missing data (n)	Missing data (%)
Age (years)	0	0
Gender	0	0
Ethnicity	0	0
Temperature (℃)	54	0.7
Heart rate, beats/min	2	<0.1
Respiratory rate, beats/min	16	0.2
MAP (mmHg)	17	0.2
Spo2 (%)	3	<0.1
Hypertension	0	0
Congenstive heart failure	0	0
chronic pulmonary disease	0	0
Diabetes	0	0
Liver disease	0	0
Renal failure	0	0
Malignant cancer	0	0
Septic shock	0	0
WBC (k/ul)	2	<0.1
RDW (%)	5	<0.1
Hemoglobin (g/dL)	5	<0.1
Sodium (mEq/L)	2	<0.1
Potassium (mEq/L)	2	<0.1
Chloride (mEq/L)	0	0
Calcium (mg/dL)	109	1.5
Glucose (mg/dL)	1	<0.1
Albumin(g/dL)	1724	23%
BUN (mg/dL)	1	<0.1
PT (second)	225	3
PTT (second)	252	3.3
PLT (k/ul)	0	0
SCr (mg/dL)	0	0
LDH (IU/L)	0	0
SOFA	0	0
SAPS II	0	0
Mechanical ventilation	0	0
renal replacement treatment	0	0

Figure S1

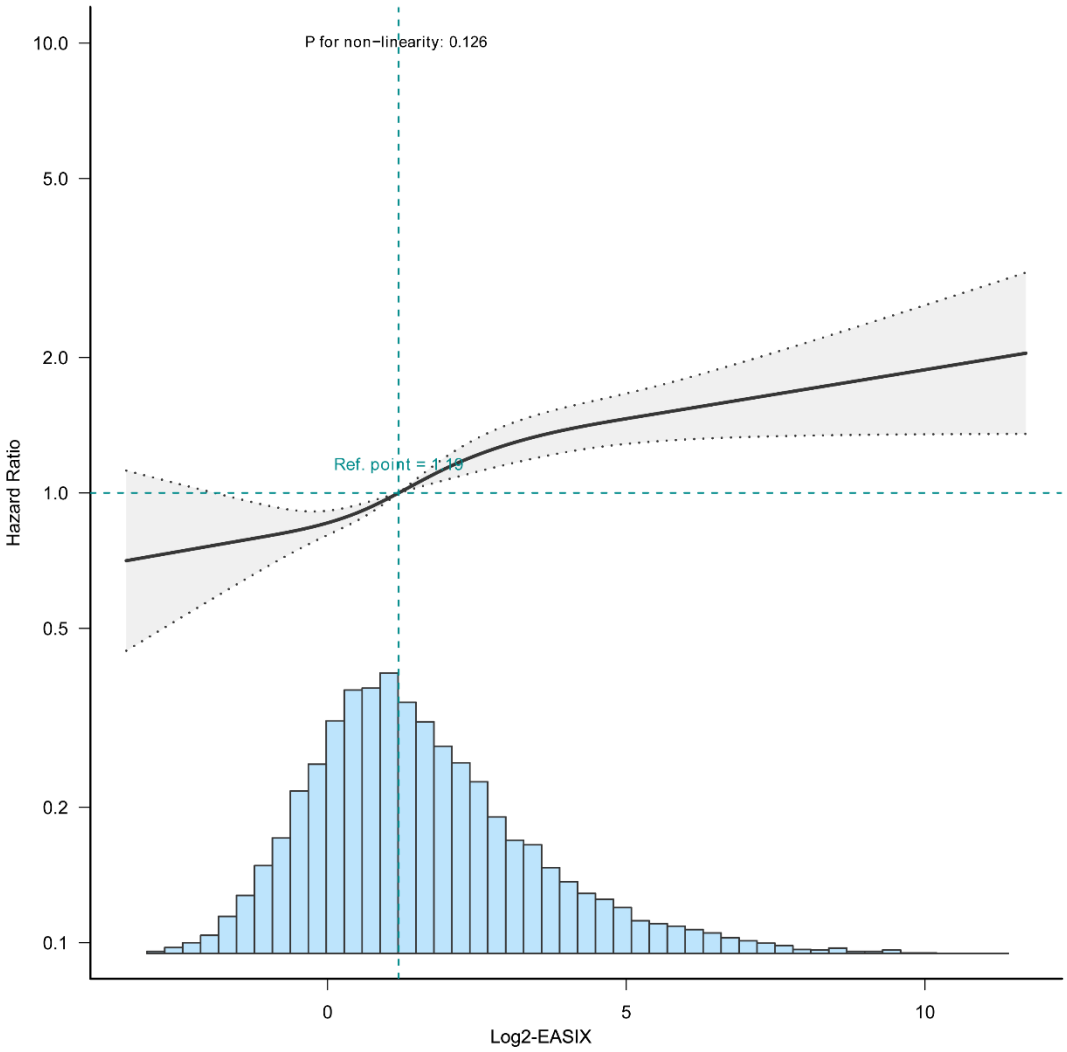

P for non−linearity: 0.126
Ref. point = 1.19
Hazard Ratio
10.0
5.0
2.0
1.0
0.5
0.2
0.1
0
5
10
Log2-EASIX

Figure S2

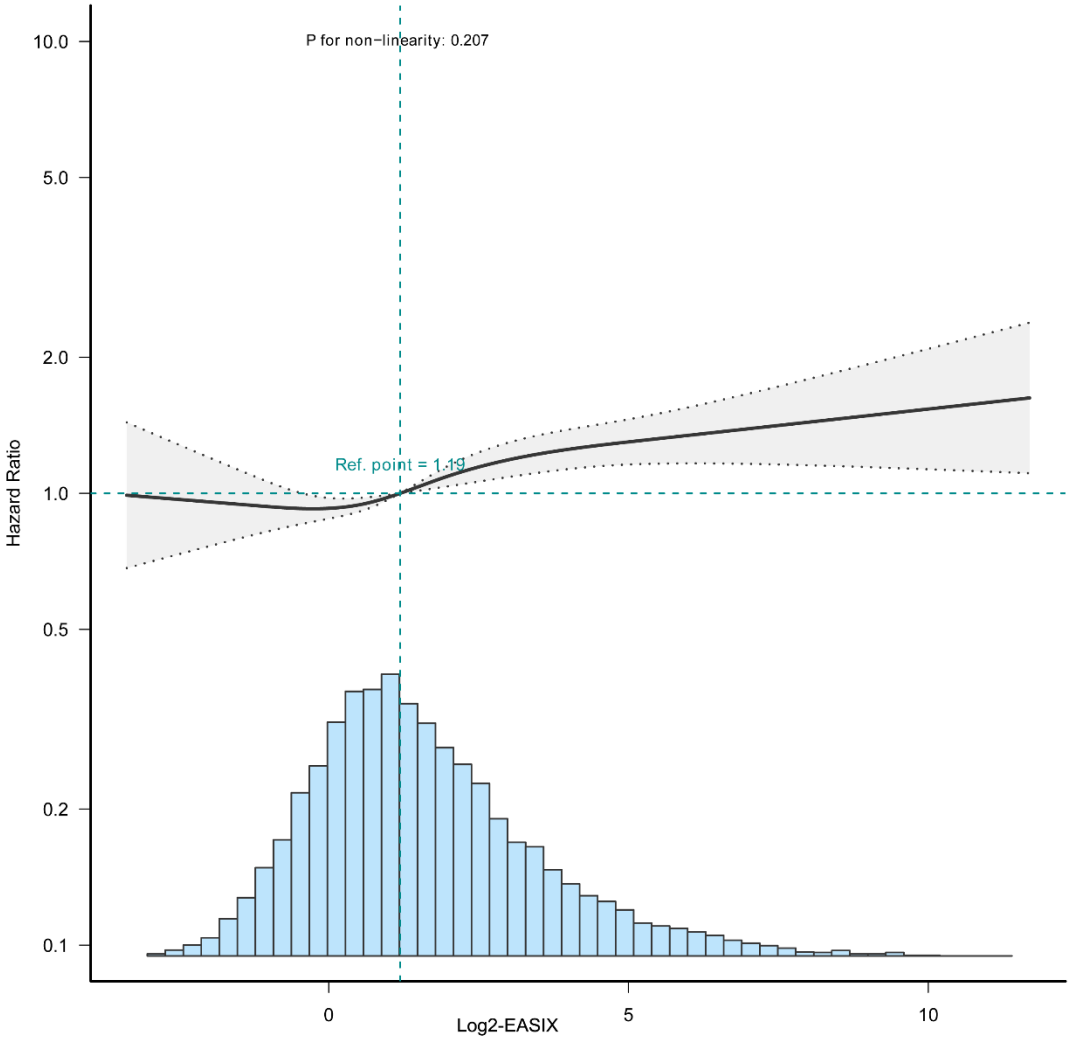
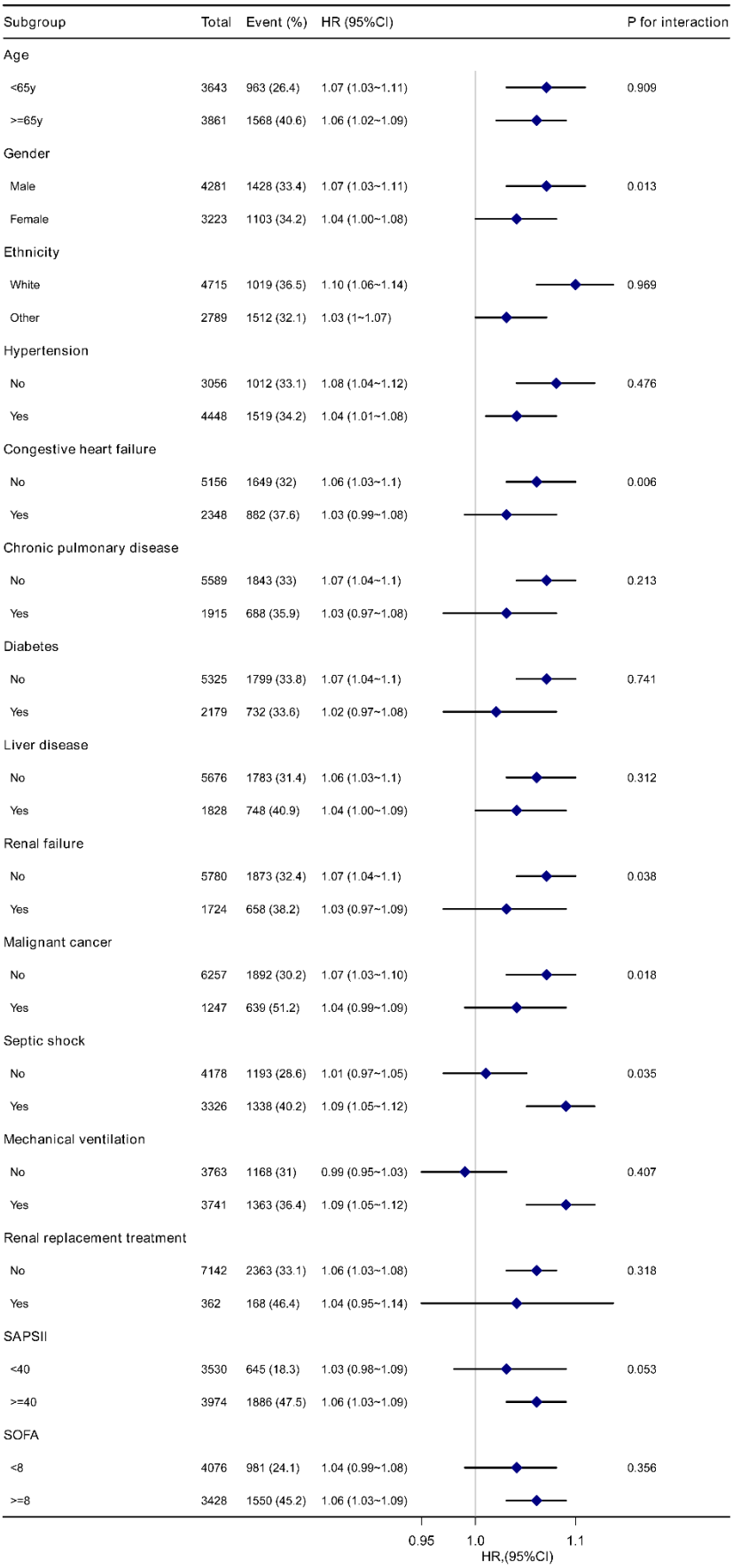

P for non−linearity: 0.207
Ref. point = 1.19
Hazard Ratio
10.0
5.0
2.0
1.0
0.5
0.2
0.1
0
5
10
Log2-EASIX

Figure S3


Subgroup
Total
Event (%)
HR (95%CI)
P for interaction
Age
<65y 3643 963 (26.4) 1.07 (1.03~1.11) 0.909
>=65y 3861 1568 (40.6) 1.06 (1.02~1.09)
Gender
Male 4281 1428 (33.4) 1.07 (1.03~1.11) 0.013
Female 3223 1103 (34.2) 1.04 (1.00~1.08)
Ethnicity
White 4715 1019 (36.5) 1.10 (1.06~1.14) 0.969
Other 2789 1512 (32.1) 1.03 (1~1.07)
Hypertension
No 3056 1012 (33.1) 1.08 (1.04~1.12) 0.476
Yes 4448 1519 (34.2) 1.04 (1.01~1.08)
Congestive heart failure
No 5156 1649 (32) 1.06 (1.03~1.1) 0.006
Yes 2348 882 (37.6) 1.03 (0.99~1.08)
Chronic pulmonary disease
No 5589 1843 (33) 1.07 (1.04~1.1) 0.213
Yes 1915 688 (35.9) 1.03 (0.97~1.08)
Diabetes
No 5325 1799 (33.8) 1.07 (1.04~1.1) 0.741
Yes 2179 732 (33.6) 1.02 (0.97~1.08)
Liver disease
No 5676 1783 (31.4) 1.06 (1.03~1.1) 0.312
Yes 1828 748 (40.9) 1.04 (1.00~1.09)
Renal failure
No 5780 1873 (32.4) 1.07 (1.04~1.1) 0.038
Yes 1724 658 (38.2) 1.03 (0.97~1.09)
Malignant cancer
No 6257 1892 (30.2) 1.07 (1.03~1.10) 0.018
Yes 1247 639 (51.2) 1.04 (0.99~1.09)
Septic shock
No 4178 1193 (28.6) 1.01 (0.97~1.05) 0.035
Yes 3326 1338 (40.2) 1.09 (1.05~1.12)
Mechanical ventilation
No 3763 1168 (31) 0.99 (0.95~1.03) 0.407
Yes 3741 1363 (36.4) 1.09 (1.05~1.12)
Renal replacement treatment
No 7142 2363 (33.1) 1.06 (1.03~1.08) 0.318
Yes 362 168 (46.4) 1.04 (0.95~1.14)
SAPSII
<40 3530 645 (18.3) 1.03 (0.98~1.09) 0.053
>=40 3974 1886 (47.5) 1.06 (1.03~1.09)
SOFA
<8 4076 981 (24.1) 1.04 (0.99~1.08) 0.356
>=8 3428 1550 (45.2) 1.06 (1.03~1.09)
0.95
1.0
1.1
HR,(95%CI)