

Supplementary table 1. Vif of variables in modeling group

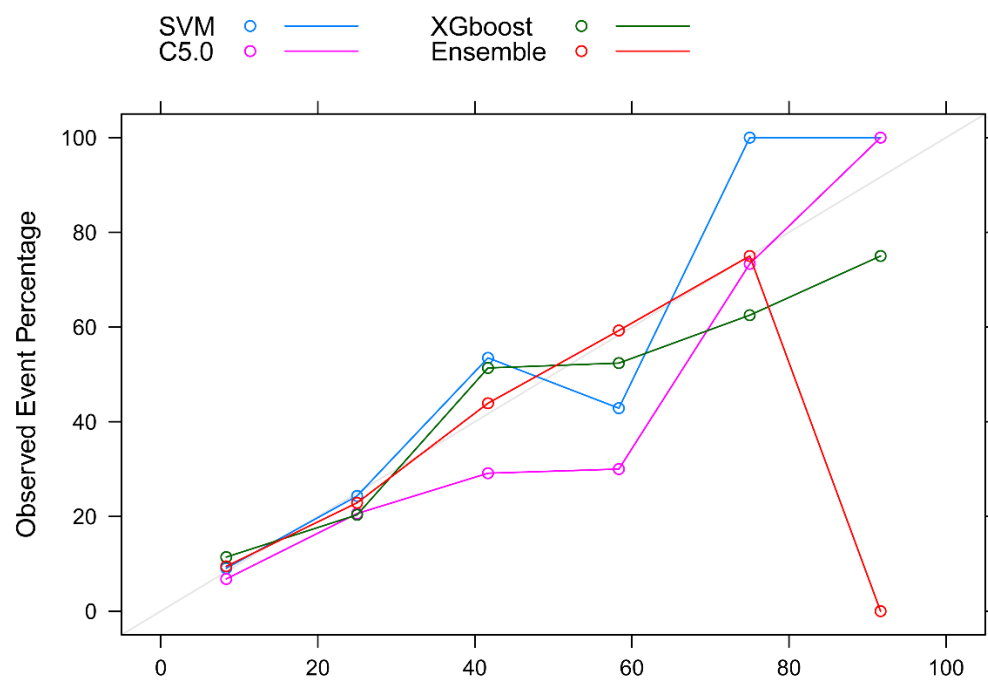
Variables	VIF
Cholinesterase	2.038
Albumin	1.808
Blood urea nitrogen	1.466
Triglyceride	1.374
Phosphorus>1.61	1.312
Phosphorus<0.97	1.309
Lactic acid	1.276
Procalcitonin	1.217
Prothrombin time	1.207
Pro-BNP	1.201
Aspartate transaminase	1.155
D-dime	1.129
GCS	1.086
Breathe rate	1.086
SpO2	1.076
Globulin>35	1.066
Globulin<20	1.063
Lung infection	1.063
Peritonitis	1.054

Callout: Pro-BNP, pro-brain natriuretic peptide; SpO2, pulse oxygen saturation; GCS, Glasgow coma score.

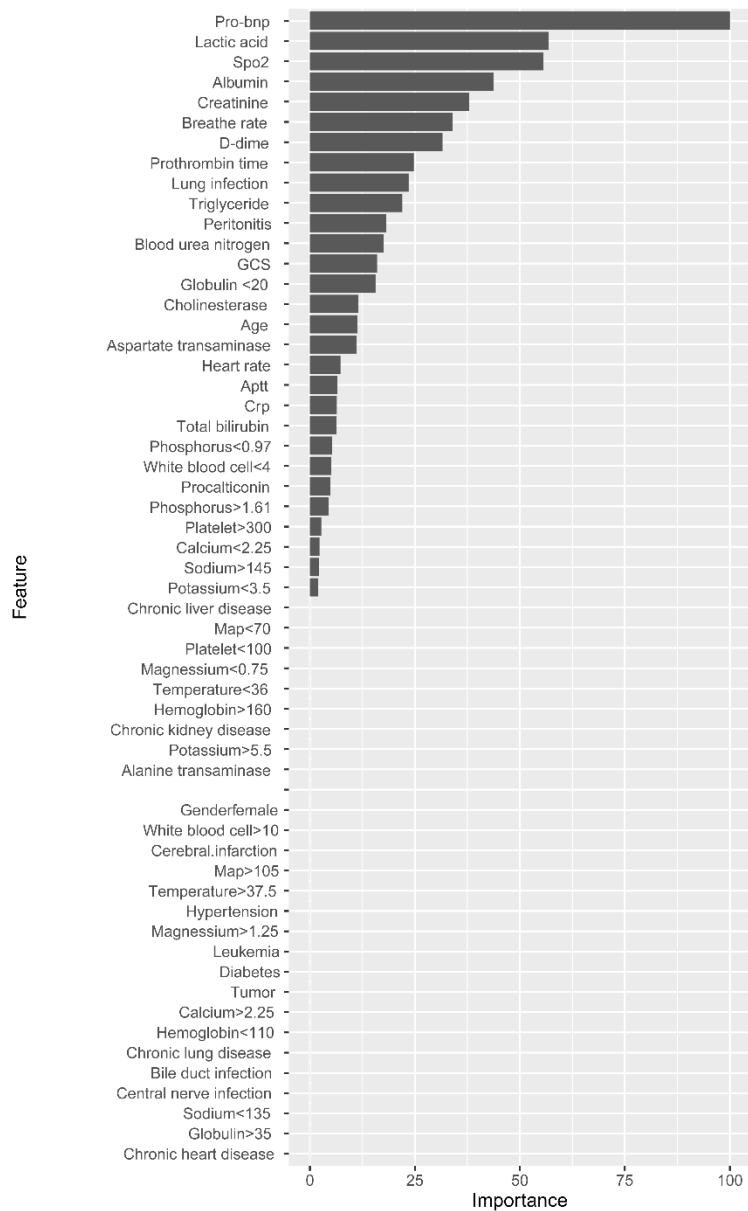
Supplementary table 2: the P value between variables and logitp

Variables	Pr(> z)
Procalcitonin	0.759
Aspartate transaminase	0.694
Triglyceride	0.629
Blood urea nitrogen	0.263
Lactic acid	0.218
Pro-BNP	0.278
Cholinesterase	0.741
Prothrombin time	0.459
D-dime	0.733
Albumin	0.946
Breathe rate	0.789
SpO2	0.426

Callout: Pro-BNP, pro-brain natriuretic peptide; SpO2, pulse oxygen saturation.



Supplementary Fig.1. Calibration curve of ensemble model.



Supplementary Fig.2. The important variables in ensemble model.