

Supplementary Table S12. Comparison of AUC and NRI between ML models and conventional indicators for bacterial infection in non-ACLF in the validation set.

Model names	AUC (95% CI)	<i>P</i>-value vs. Six-metabolite model	NRI	<i>P</i>-value vs. Six-metabolite model
Six-metabolite model	0.889 (0.859-0.920)	-	-	-
Combined model	0.929 (0.905-0.953)	<0.001	0.056	0.082
CRP	0.782 (0.740-0.824)	<0.001	- 0.223	<0.001
N	0.681 (0.631-0.731)	<0.001	- 0.354	<0.001
PCT	0.624 (0.571-0.676)	<0.001	- 0.447	<0.001

Note: ACLF, acute-on-chronic liver failure; AUC, area under the ROC curve; CRP, C-reactive protein; ML, machine learning; N, neutrophil count; NRI, net reclassification improvement; PCT, procalcitonin; WBC, white blood cell count.