

Supplementary Table S13. Performance of ML models and conventional indicators to predict bacterial infection in non-ACLF in the validation set.

Model names	AUC	Accuracy	Specificity	Recall	Precision	F1 score
Six-metabolite model	0.889	0.812	0.856	0.767	0.842	0.803
Combined model	0.929	0.840	0.874	0.805	0.865	0.834
CRP	0.782	0.700	0.647	0.753	0.681	0.715
N	0.681	0.635	0.749	0.521	0.675	0.588
PCT	0.623	0.588	0.423	0.753	0.566	0.647

Note: ACLF, acute-on-chronic liver failure; AUC, area under the ROC curve; CRP, C-reactive protein; ML, machine learning; N, neutrophil count; PCT, procalcitonin.