

**Supplementary information 1.****Table 1.** Comparison of machine learning model values (Three boosting model and logistic regression model)

<b>Classifier</b>	<b>Sensitivity</b>	<b>Specificity</b>	<b>PPV</b>	<b>NPV</b>	<b>Accuracy</b>	<b>AUC</b>
Xgboost	.813	.836	.807	.842	.826	.895
CatBoost	.921	.739	.749	.917	.822	.900
LGBM	.914	.746	.752	.911	.822	.897
LR	.784	.838	.838	.828	.832	.852

Abbreviations: PPV, positive predict value; NPV, negative predict value; AUC, area under the receiver operating characteristics curve; LGBM, light gradient boosting model; LR, logistic regression