Supplementary Table S1. Comparison of Random Forest and Logistic Regression models for active disease detection.

Metric	Random Forest	Logistic Regression
ROC AUC (mean ± SD)	0.908 ± 0.041	0.821 ± 0.033
PR AUC (mean ± SD)	0.961 ± 0.019	0.922 ± 0.016
Sensitivity	0.889	0.611
Specificity	0.650	0.850
Accuracy	0.815	0.685
PPV	0.851	0.902
NPV	0.722	0.486