

**S5 Table.** Sensitivity, specificity, PPV, NPV, and accuracy of predicted probability using the LASSO model at each cut-off point from 10% to 20%, in units of 1% (overall set)

Predicted probability (%)	Sensitivity	Specificity	PPV	NPV	Accuracy	AUROC
10	0.854	0.502	0.203	0.958	0.546	0.678
11	0.805	0.524	0.201	0.947	0.560	0.664
12	0.805	0.607	0.234	0.954	0.633	0.706
13	0.659	0.709	0.252	0.933	0.703	0.684
14	0.659	0.738	0.273	0.935	0.728	0.698
15	0.659	0.742	0.276	0.936	0.731	0.700
16	0.634	0.785	0.306	0.935	0.766	0.710
17	0.610	0.825	0.342	0.934	0.797	0.718
18	0.610	0.855	0.385	0.936	0.823	0.732
19	0.610	0.869	0.410	0.937	0.835	0.739
20	0.561	0.873	0.397	0.930	0.832	0.717

AUROC, area under the receiver operating characteristic; LASSO, least absolute shrinkage and selection operator; NPV, negative predicted value; PPV, positive predicted value.