

Supplementary data

Table S1. Different cut-off of risk score in discrimination of patients with IFD in training dataset

Cut-points	Parameter	Rate	Asymptotic 95%CI	Exact 95%CI
risk score >5 / <=5	Sensitivity	0.946	0.8944, 0.9975	0.8673, 0.9851
	Specificity	0.421	0.4044, 0.4374	0.4043, 0.4376
	Accuracy	0.432	0.4156, 0.4484	0.4155, 0.4486
	Positive predictive value (PPV)	0.034	0.0262, 0.0419	0.0267, 0.0429
	Negative predictive value (NPV)	0.997	0.9945, 0.9999	0.9929, 0.9992
risk score >10 / <=10	Sensitivity	0.716	0.6135, 0.8189	0.5995, 0.8150
	Specificity	0.834	0.8215, 0.8464	0.8210, 0.8462
	Accuracy	0.831	0.8190, 0.8438	0.8186, 0.8437
	Positive predictive value (PPV)	0.085	0.0633, 0.1072	0.0645, 0.1100
	Negative predictive value (NPV)	0.993	0.9896, 0.9958	0.9889, 0.9955
risk score >15 / <=15	Sensitivity	0.284	0.1811, 0.3865	0.1850, 0.4005
	Specificity	0.971	0.9655, 0.9767	0.9649, 0.9765
	Accuracy	0.957	0.9498, 0.9633	0.9493, 0.9631
	Positive predictive value (PPV)	0.175	0.1070, 0.2430	0.1117, 0.2550
	Negative predictive value (NPV)	0.984	0.9801, 0.9885	0.9795, 0.9882

Table S2. Different cut-off of risk score in discrimination of patients with IFD in validation dataset

Cut-points	Parameter	Rate	Asymptotic 95%CI	Exact 95%CI
risk score >5 / <=5	Sensitivity	0.931	0.8388, 1.0000	0.7723, 0.9915
	Specificity	0.410	0.3842, 0.4364	0.3840, 0.4370
	Accuracy	0.421	0.3952, 0.4471	0.3950, 0.4476
	Positive predictive value (PPV)	0.033	0.0205, 0.0447	0.0216, 0.0470
	Negative predictive value (NPV)	0.996	0.9915, 1.0000	0.9872, 0.9996
risk score >10 / <=10	Sensitivity	0.655	0.4822, 0.8282	0.4567, 0.8206
	Specificity	0.836	0.8164, 0.8557	0.8153, 0.8553
	Accuracy	0.832	0.8126, 0.8519	0.8115, 0.8515
	Positive predictive value (PPV)	0.079	0.0446, 0.1124	0.0479, 0.1199
	Negative predictive value (NPV)	0.991	0.9859, 0.9967	0.9840, 0.9958
risk score >15 / <=15	Sensitivity	0.310	0.1420, 0.4787	0.1528, 0.5083
	Specificity	0.976	0.9676, 0.9839	0.9661, 0.9832
	Accuracy	0.962	0.9518, 0.9719	0.9504, 0.9713
	Positive predictive value (PPV)	0.214	0.0902, 0.3384	0.1030, 0.3681
	Negative predictive value (NPV)	0.985	0.9787, 0.9916	0.9772, 0.9909