

**Table S1** Considered variables in our analysis

Variable	Overall (n=261)	No IE (n=214)	IE (n=47)	P value
Device, n (%)	27 (10.3)	20 (9.4)	7 (14.9)	0.29
Prosthetic valve, n (%)	34 (13.0)	27(12.6)	7 (14.9)	0.64
Fever, n (%)	144 (55.2)	118 (55.1)	26 (55.3)	>0.99
Positive blood culture, n (%)	112 (42.0)	79 (36.9)	33 (70.2)	<0.001
Vascular phenomena, n (%)	13 (5.0)	8 (3.7)	5 (10.6)	0.06
Heart defect, n (%)	9 (3.5)	6 (2.8)	3 (6.4)	0.21
Drug abuse, n (%)	6 (2.3)	4 (1.9)	2 (4.3)	0.30
Embolic disease, n (%)	40 (15.3)	23 (10.8)	17 (36.2)	<0.001
TEE positive, n (%)	73 (28.0)	31 (14.5)	42 (89.4)	<0.001
PET-CT				
Conducted, n (%)	45 (17.2)	33 (15.4)	12 (25.5)	0.15
Positive, n (% of all, % of conducted)	7 (2.7, 15.6)	3 (1.4, 9.1)	4 (8.5, 33.3)	0.03, 0.13

IE, infective endocarditis; TEE, transesophageal echocardiography; PET-CT, positron emission tomography-computed tomography.

**Table S2** Calculating pretest probability prior to TEE

Variable	Odds ratio (95% CI)	P value
Device	3.16 (2.03, 4.91)	<0.001
Prosthetic valve	1.10 (0.541, 2.25)	0.79
Fever	1.44 (0.891, 2.33)	0.14
Positive blood culture	0.566 (0.321, 0.998)	0.049
Vascular phenomena	4.54 (1.62, 12.7)	0.004
Heart defect	4.24 (0.581, 31.0)	0.16
Drug abuse	5.55 (0.547, 56.3)	0.15
PET-CT	1.80 (0.647, 5.01)	0.26

TEE, transesophageal echocardiography; CI, confidence interval; PET-CT, positron emission tomography-computed tomography.

**Table S3** Prediction of IE including TEE data

Variable	Odds ratio (95% CI)	P value
Device	1.57 (0.917, 2.68)	0.10
Prosthetic valve	1.87 (0.575, 6.08)	0.30
Fever	0.952 (0.452, 2.01)	0.90
Positive blood culture	0.535 (0.189, 1.52)	0.24
Vascular phenomena	2.39 (0.471, 12.1)	0.29
Heart defect	7.64 (0.277, 211)	0.23
Drug abuse	54.0 (1.44, 2016)	0.03
TEE positive	34.5 (6.76, 176)	<0.001
PET-CT	0.712 (0.172, 2.95)	0.64

IE, infective endocarditis; TEE, transesophageal echocardiography; CI, confidence interval; PET-CT, positron emission tomography-computed tomography.

**Table S4** Alternative metrics precision, recall and G-mean in the prediction of infective endocarditis

Algorithm	Precision	Recall	G-mean
Duke score	0.857	0.255	0.503
Logistic regression	0.676	0.979	0.937
Neural nets-unbalanced	0.571	0.710	0.793
Neural nets-undersampling	0.487	0.917	0.852
Neural nets-SMOTE	0.53	0.753	0.803

**Table S5** Alternative metrics precision, recall and G-mean in the pretest probability prior to TEE

Algorithm	Precision	Recall	G-mean
Logistic regression	0.685	0.787	0.851
Neural nets-unbalanced	0.458	0.580	0.703
Neural nets-undersampling	0.404	0.743	0.754
Neural nets-SMOTE	0.506	0.624	0.736

TEE, transesophageal echocardiography.