Supplementary Table 2. Pooled event rates and relative risks for dichotomous baseline characteristics from meta-analysis

	TTE event rate	TEE event rate	RR (95%CI)	*P* value
Female				
Observational adjusted	408/754 (54.1%)	392/719 (54.5%)	1.00 (0.91 to 1.09)	0.93
Observational unadjusted	541/1,073 (50.4%)	264/676 (39.1%)	1.18 (0.98 to 1.42)	0.07
Pooled	949/1,827 (51.9%)	656/1,395 (47.0%)	1.09 (0.97 to 1.23)	0.14
PVD				
Observational adjusted	59/351 (16.8%)	54/316 (17.1%)	1.00 (0.71 to 1.39)	0.98
Observational unadjusted	227/1,050 (21.6%)	145/766 (18.9%)	0.89 (0.68 to 1.16)	0.38
Pooled	286/1,401 (20.4%)	199/1,082 (18.4%)	0.93 (0.77 to 1.11)	0.40
HTN				
Observational adjusted	587/754 (77.9%)	543/719 (75.5%)	1.01 (0.95 to 1.09)	0.67
Observational unadjusted	641/926 (69.2%)	478/566 (84.5%)	0.67 (0.33 to 1.37)	0.27
Pooled	1,228/1,680 (73.1%)	1021/1,285 (79.5%)	1.03 (0.89 to 1.21)	0.68
DM				
Observational adjusted	212/754 (28.1%)	214/719 (29.8%)	0.94 (0.8 to 1.1)	0.42
Observational unadjusted	337/1,103 (30.6%)	270/789 (34.2%)	0.92 (0.81 to 1.05)	0.24
Pooled	589/1,857 (31.7%)	484/1,508 (32.1%)	0.93 (0.84 to 1.03)	0.15
CVD				
Observational adjusted	112/255 (43.9%)	108/268 (40.3%)	1.11 (0.92 to 1.35)	0.28
Observational unadjusted	180/574 (31.4%)	172/325 (52.9%)	0.89 (0.69 to 1.13)	0.34
Pooled	292/829 (35.2%)	280/593 (47.2%)	0.98 (0.83 to 1.15)	0.79
DLP				
Observational adjusted	184/403 (45.7%)	197/403 (48.9%)	0.93 (0.81 to	0.36

			1.08)	
Observational unadjusted	621/758 (81.9%)	311/394 (78.9%)	0.98 (0.84 to 1.15)	0.84
Pooled	805/1,161 (69.3%)	508/797 (63.7%)	0.97 (0.85 to 1.11)	0.68
PCI				
Observational adjusted	41/165 (24.8%)	39/182 (21.4%)	1.23 (0.85 to 1.79)	0.28
Observational unadjusted	274/821 (33.4%)	167/552 (30.3%)	1.02 (0.73 to 1.42)	0.92
Pooled	315/986 (31.9%)	206/734 (28.1%)	1.07 (0.83 to 1.37)	0.61
MI				
Observational adjusted	86/708 (12.1%)	77/677 (11.4%)	1.06 (0.8 to 1.42)	0.67
Observational unadjusted	196/931 (21.1%)	140/681 (20.6%)	0.97 (0.79 to 1.19)	0.78
Pooled	282/1,639 (17.2%)	217/1,358 (16%)	1.00 (0.85 to 1.18)	0.98

Rate of characteristics are depicted as crude counts and percentages. Using the Mantel-Haenszel method, the weighted RR ratios were calculated. TTE: transthoracic echocardiography; TEE: transesophageal echocardiography; RR: relative risk; CI: confidence interval; PVD: peripheral vascular disease; HTN: hypertension; DM: diabetes mellitus; CVD: cardiovascular disease; DLP: dyslipidemia; PCI: percutaneous coronary intervention; MI: myocardial infarction

Supplementary Table 3. Event means and mean differences for continuous outcomes from meta-analysis

	TTE mean	**TEE mean**	**MD (95%CI)**	***P* value**
Age				
Observational adjusted	82.9	82.6	0.38 (-0.87 to 1.63)	0.55
Observational unadjusted	82.5	81.8	0.63 (-0.09 to 1.36)	0.09
Pooled	82.7	82.2	0.50 (-0.13 to 1.13)	0.12
Ejection fraction				
Observational adjusted	53.7	52.9	0.8 (-1.03 to 2.63)	0.39
Observational unadjusted	52.2	51.5	0.71 (-0.96 to 2.38)	0.41
Pooled	52.9	52.1	0.75 (-0.48 to 1.98)	0.23
STS risk score				
Observational adjusted	8.9	9.2	-0.37 (-1.94 to 1.2)	0.64
Observational unadjusted	8.1	8.5	-0.40(-1.13 to 0.34)	0.29
Pooled	8.3	8.7	-0.36 (-1 to 0.28)	0.27
EuroSCORE				
Observational adjusted	8.3	8.3	0.02 (-1.06 to 1.09)	0.97
Observational unadjusted	9.0	8.9	0.01 (-1.66 to 1.69)	0.99
Pooled	8.6	8.6	0.04 (-0.77 to 0.85)	0.92
Logistic Euro				
Observational adjusted	18.8	19.6	-0.80 (-2.56 to 0.96)	0.37
Observational unadjusted	23.2	22.0	1.11 (-1.47 to 3.68)	0.40
Pooled	21.4	21.0	0.33 (-1.61 to 2.27)	0.74

Baseline characteristics are depicted as weighted means. Using the inverse variance method, the mean differences were calculated. TTE: transthoracic echocardiography; TEE: transesophageal echocardiography; MD: mean difference; CI: confidence interval; STS: Society of Thoracic Surgery