

SUPPLEMENTARY MATERIAL

Supplementary Table S1. Clinical characteristics of low surgical risk patients (EuroSCORE II <4) treated with surgical and transcatheter aortic valve replacement.

Clinical characteristics	SAVR (N = 295)	TAVR (N = 260)	P value
Age – years	68.8 (9.4)	81.6 (5.8)	<0.001
Female sex	115 (39.0)	129 (49.6)	0.012
EuroSCORE II	1.7 (0.9)	2.4 (0.9))	<0.001
Arterial hypertension	210 (71.4)	206 (79.2)	0.034
Diabetes	104 (35.3)	80 (30.8)	0.263
Smoking	37 (12.6)	62 (23.9)	0.001
Chronic kidney disease	49 (16.6)	44 (17.0))	0.905
Obesity	23 (7.8)	85 (32.7)	<0.001
Atrial fibrillation	35 (11.9)	68 (26.7)	<0.001
Chronic obstructive pulmonary disease	28 (9.5)	33 (12.7)	0.229

Data are presented as mean (standard deviation) or frequency (percentage). Values in bold are significant. SAVR: surgical aortic valve replacement, TAVR: transcatheter aortic valve replacement.

Supplementary Table S2. Echocardiographic findings of low surgical risk patients (EuroSCORE II <4) treated with surgical and transcatheter aortic valve replacement.

Echocardiographic findings	SAVR (N = 295)	TAVR (N = 260)	P value
Peak AV velocity - m/s	4.5 (0.6)	4.4 (0.6)	0.274
Peak AV gradient– mmHg	81.9 (22.6)	78.3 (21.6)	0.060
Mean AV gradient– mmHg	48.0 (14.6)	48.1 (4.3)	0.957
LVEDVI - ml/m ²	53.0 (18.9)	53.9 (16.0)	0.572
LVMI - g/m ²	119.7 (35.2)	122.5 (27.0)	0.325
LVEF - %	61.6 (8.7)	59.8 (7.9)	0.013
LV-GLS - %	-15.7 (5.0)	-15.6 (3.8)	0.801
LAVI - ml/m ²	36.0 (13.1)	44.7 (17.6)	<0.001
E/e' ratio	13.5 (5.9)	14.9 (6.1)	0.025
Moderate/severe MR	22 (7.5)	23 (9.2)	0.484
Moderate/severe TR	24 (8.2)	24 (9.8)	0.516
TAPSE – mm	22.0 (4.5)	21.3 (4.4)	0.093
PASP – mmHg	25.9 (12.9)	33.2 (12.2)	<0.001
RVAc - mm/mmHg	1.0 (0.4)	0.76 (0.3)	<0.001

Data are presented as mean (standard deviation) or frequency (percentage). Values in bold are significant. AV: aortic valve, LAVI: left atrial volume index, LVEDVI: left ventricular end-diastolic volume index, LVEF: left ventricular ejection fraction, LV-GLS: left ventricle global longitudinal strain, LVMI: left ventricle mass index, MR: mitral regurgitation, PASP: pulmonary artery systolic pressure, RVAc: right ventricular-arterial coupling, SAVR: surgical aortic valve replacement TAPSE: tricuspid annular plane systolic excursion, TAVR: transcatheter aortic valve replacement, TR: tricuspid regurgitation.

Supplementary Table S3. Univariable Cox regression analysis for all-cause mortality one year after the intervention.

	HR (95% CI)	p value
Age – years	1.06 (1.04-1.09)	<0.001
Female sex	1.31 (0.88-1.94)	0.179
EuroSCORE II	1.06 (1.04-1.08)	<0.001
Arterial hypertension	2.24 (1.22-4.10)	0.009
Diabetes	1.24 (0.83-1.85)	0.293
Smoking	1.01 (0.61-1.67)	0.964
Chronic kidney disease	3.80 (2.56-5.64)	<0.001
Obesity	1.85 (1.21-2.82)	0.004
Atrial fibrillation	1.95 (1.29-2.94)	0.002
Chronic pulmonary disease	1.71 (1.04-2.82)	0.034
Left ventricular ejection fraction	0.97 (0.96-0.99)	0.003
Right-sided cardiac damage by Gutiérrez classification	2.50 (1.50-4.16)	<0.001
Right-sided cardiac damage by Gèneveux classification	1.56 (1.03-2.36)	0.035

Statistically significant results are shown in bold. Hazard ratios (HR) and 95% confidence intervals (CI) are presented.