SUPPLEMENTARY TABLES

Supplementary Table 1. Comparison of baseline characteristics between excluded and included patients.

	Excluded patients (*N* = 33)	Study cohort (*N* = 156)	*P* value
Female sex	21 (63.6%)	88 (56.4%)	0.445
Age (year)	82.3 ± 8.8	80.2 ± 7.8	0.169
Body mass index, kg/m2	23.6 ± 4.6	24.3 ± 4.3	0.416
Hypertension	24 (72.7%)	99 (63.5%)	0.310
Diabetes mellitus	13 (39.4%)	55 (35.3%)	0.653
Hyperlipidemia	9 (27.3%)	41 (26.3%)	0.907
Coronary artery disease	16 (48.5%)	63 (40.4%)	0.391
Peripheral artery disease	7 (21.2%)	19 (12.2%)	0.171
Prior myocardial infarction	3 (9.1%)	4 (2.6%)	0.103
Prior stroke or transient ischemic attack	6 (18.2%)	10 (6.4%)	0.039
Chronic kidney disease	14 (42.4%)	47 (30.1%)	0.170
Chronic lung disease	1 (3.0%)	12 (7.7%)	0.336
Permanent pacemaker	1 (3.0%)	7 (4.5%)	1.000
EuroSCORE II, %	10.4 ± 10.1	3.9 ± 3.2	<0.0001
STS-PROM, %	7.8 ± 4.3	5.1 ± 3.9	0.0006
NYHA Fc 3/4	33 (100%)	121 (77.6%)	0.001
Echocardiography			
LVEF, %	65.2 ± 14.1	65.0 ± 13.0	0.939
Aortic valve area, cm^2	0.76 ± 0.21	0.77 ± 0.18	0.730
Mean pressure gradient, mmHg	42.2 ± 22.6	42.6 ± 17.6	0.918

Values are *n* (%) or mean ± SD. Abbreviations: Euroscore: European System for Cardiac Operative Risk Evaluation; STS-PROM: Society of Thoracic Surgeons Predicted Risk of Mortality; NYHA Fc: New York Heart Association functional class; LVEF: left ventricular ejection fraction.

Supplementary Table 2. Baseline characteristics in intermediate-high and low risk group.

	Intermediate-high risk (*N* = 75)	Low risk (*N* = 81)	*P* value
Female sex	46 (61.3%)	42 (51.9%)	0.233
Age (year)	82.9 ± 6.8	77.6 ± 7.8	<0.0001
Body mass index, kg/m2	23.3 ± 3.9	25.3 ± 4.4	0.0035
Hypertension	48 (64.0%)	51 (62.9%)	0.893
Diabetes mellitus	34 (45.3%)	21 (25.9%)	0.011
Hyperlipidemia	17 (22.7%)	24 (29.6%)	0.324
Coronary artery disease	37 (49.3%)	26 (32.1%)	0.028
Peripheral artery disease	14 (18.7%)	5 (6.2%)	0.017
Prior myocardial infarction	3 (4.0%)	1 (1.2%)	0.352
Prior stroke or transient ischemic attack	7 (9.3%)	3 (3.7%)	0.352
Chronic kidney disease	37 (49.3%)	10 (12.4%)	<0.0001
Chronic lung disease	5 (6.7%)	7 (8.6%)	0.644

Permanent pacemaker	4 (5.3%)	3 (3.7%)	0.711
EuroSCORE II, %	5.6 ± 3.8	2.4 ± 1.1	<0.0001
STS-PROM, %	8.1 ± 3.8	2.4 ± 0.8	<0.0001
NYHA Fc 3/4	70 (93.3%)	51 (63.0%)	<0.0001
Echocardiography			
LVEF, %	63.3 ± 15.1	66.7 ± 10.4	0.126
Aortic valve area, cm^2	0.75 ± 0.20	0.79 ± 0.15	0.176
Mean pressure gradient, mmHg	42.9 ± 19.6	42.2 ± 15.6	0.821

Values are *n* (%) or mean ± SD. Abbreviations: Euroscore: European System for Cardiac Operative Risk Evaluation; STS-PROM: Society of Thoracic Surgeons Predicted Risk of Mortality; NYHA Fc: New York Heart Association functional class; LVEF: left ventricular ejection fraction.

Supplementary Table 3. Comparison of procedural characteristics and clinical outcomes between low and intermediate-high risk groups.

	Intermediate-high risk ($N = 75$)	Low risk ($N = 81$)	*P* Value
Trans-femoral Approach	75 (100.0%)	81 (100.0%)	1.000
Valve Type			0.059
CoreValve/ Evolute R	39 (52.0%)	29 (35.8%)	
Sapien XT/ Sapien 3	29 (38.7%)	46 (56.8%)	
Lotus	6 (8.0%)	3 (3.7%)	
Portico	1 (1.3%)	3 (3.7%)	
Need for 2nd Valve	1 (1.3%)	2 (2.5%)	1.000
Total contrast medium used, ml	170.8 ± 50.5	168.3 ± 65.7	0.801
Total procedural time, min	102.6 ± 35.8	93.9 ± 37.8	0.146
In-hospital outcome			
Acute kidney injury	3 (5.4%)	4 (4.9%)	1.000
New LBBB	29 (38.7%)	12 (14.8%)	0.001
New permanent pacemaker	11 (14.7%)	3 (3.7%)	0.023
Vascular complication, major	3 (4.0%)	1 (1.2%)	0.358
1 Year Clinical outcome,			
Death	6 (8.0%)	2 (2.5%)	0.155
Cardiovascular Death	1 (1.3%)	0 (0.0%)	0.481
Rehospitalization	27 (36.0%)	16 (19.8%)	0.124
Heart failure rehospitalization	8 (10.7%)	6 (7.4%)	0.477
Stroke or transient ischemic attack	2 (2.7%)	0 (0.0%)	0.230

Values are *n* (%), mean ± SD or median (interquartile range). Abbreviation: LBBB: left bundle branch block.

Supplementary Table 4. Comparison of baseline neurologic and cognitive assessments between low and intermediate-high risk groups.

	Intermediate-high risk ($N = 75$)	Low risk ($N = 81$)	*P* Value
NIHSS			
Score	0 (0–0)	0 (0–0)	0.001
Number of score > 0	16 (21.3%)	2 (2.5%)	<0.0001
Barthel index			
Score	100 (85–100)	100 (100–100)	0.0012
Number of score < 100	28 (37.3%)	12 (14.8%)	0.001
MMSE			
Score	25 (22–29)	29 (25–30)	<0.0001
Number of score < 26	39 (52.0%)	22 (27.2%)	0.001
ADAS-cog	7 (3–11)	1 (0–7)	<0.0001
Color Trail Test A (category)	8 (6–8)	6 (3–8)	0.023
Color Trail Test B (category)	8 (8–8)	8 (4–8)	0.121
Verbal fluency	24.9 ± 9.9	30.4 ± 8.2	0.0002

Values are number (%), median (interquartile range) or mean (standard deviation) if normally distributed. Abbreviations: NIHSS: National Institutes of Health Stoke Scale; ADAS-cog: Alzheimer Disease Assessment Scale–Cognitive Subtest; MMSE: Mini-Mental State Examination score.