Table S1. Echocardiographic Parameters.

		All Patients (N = 359)	SAPIEN 3 (N = 215)	Evolut (N = 144)	*p*-Value
	baseline	**0.74** ± 0.2	**0.76** ± 0.2	**0.71** ± 0.2	**0.017**
Aortic Valve Area (cm2)	30 days	**1.57** ± 0.4	**1.49** ± 0.4	**1.71** ± 0.4	**<0.001**
	1 year	**1.53** ± 0.5	**1.44** ± 0.5	**1.70** ± 0.5	**0.002**
	baseline	68.4 ± 25.7	67.5 ± 25.5	69.9 ± 26	0.404
Peak Gradient (mmHg)	30 days	18.2 ± 8.0	21.6 ± 7.6	12.8 ± 5.1	**<0.001**
	1 year	18.2 ± 8.0	21.6 ± 9.0	13.5 ± 4.9	**<0.001**
	baseline	40.4 ± 16.8	39.9 ± 16.4	41.2 ± 17.2	0.487
Mean Gradient (mmHg)	30 days	9.4 ± 4.1	11.2 ± 4.0	6.6 ± 2.5	**<0.001**
	1 year	9.4 ± 4.1	11.6 ± 5.4	6.8 ± 2.4	**<0.001**
	baseline	56 **(15.6)**	33 **(15.4)**	23 **(16.0)**	0.888
Aortic Regurgitation / PVR ≥ 2 - n (%)	30 days	7/346 **(2.0)**	2/207 **(1.0)**	5/139 **(3.6)**	0.088
	1 year	5/147 **(3.4)**	3/94 **(3.2)**	2/53 **(3.8)**	0.969
	baseline	51.5 ± 13.5	49.6 ± 14.4	54.5 ± 11.3	**<0.001**
LVEF (%)	30 days	55.9 ± 11.2	54.7 ± 11.7	57.7 ± 9.9	**0.045**
	1 year	55.9 ± 11.2	57.1 ± 11.3	55.9 ± 10.0	0.523
	baseline	37.7 ± 14.8	36.1 ± 14.2	40.2 ± 15.2	**0.011**
Systolic PAP (mmHg)	30 days	33.8 ± 10.8	32.8 ± 10.0	35.5 ± 11.9	0.074
	1 year	33.8 ± 10.8	34.7 ± 13.2	35.8 ± 11.7	0.651
	baseline	123 **(34.3)**	72 **(33.5)**	51 **(35.4)**	0.706
Mitral Regurgitation ≥ 2 - n (%)	30 days	48/187 **(20.4)**	29/116 **(20.0)**	19/71 **(21.1)**	0.837
	1 year	36/111 **(24.5)**	22/72 **(23.4)**	14/39 **(26.4)**	0.684
	baseline	92 **(25.8)**	47 **(22.0)**	45 **(31.5)**	**0.044**
Tricuspid Regurgitation ≥ 2 - n (%)	30 days	48/186 **(20.5)**	28/116 **(19.4)**	20/70 **(22.2)**	0.609
	1 year	36/111 **(24.5)**	19/75 **(20.2)**	17/36 **(32.1)**	0.108

LVEF - Left Ventricular Ejection Fraction, PAP - Pulmonary Artery Pressure

Table S2. Predictors of All-Cause Mortality.

	Univariate		Multivariate	
	Hazard Ratio (CI)	*p*-Value	Hazard Ratio (CI)	*p*-Value
Prosthesis (Sapien 3 vs. Evolut R)	1.034 (0.746–1.433)	0.843	0.937 (0.646–1.359)	0.732
Age	1.023 (0.998–1.049)	0.073	1.026 (0.995–1.058)	0.095
Sex (Male)	0.900 (0.661–1.226)	0.505	0.857 (0.598–1.227)	0.400
Coronary Artery Disease	1.125 (0.816–1.549)	0.472	1.048 (0.729–1.506)	0.799
Prior Coronary Bypass	0.831 (0.509–1.356)	0.459	0.664 (0.386–1.141)	0.138
Left Ventricular Ejection Fraction ≤ 50%	**1.649 (1.211–2.244)**	**0.001**	**1.649 (1.166–2.330)**	**0.005**
Diabetes	1.114 (0.802–1.547)	0.521	1.165 (0.807–1.681)	0.416
Peripheral Artery Disease	**1.814 (1.146–2.871)**	**0.011**	**2.298 (1.382–3.820)**	**0.001**
Chronic Kidney Injury (GFR ≤ 60ml/min)	**1.494 (1.048–2.131)**	**0.027**	**1.516 (1.015–2.265)**	**0.042**
COPD ≥ Grade II (GOLD)	1.273 (0.796–2.035)	0.313	**1.704 (1.016–2.856)**	**0.043**
History of Cancer	**2.025 (1.379–2.973)**	**<0.001**	**2.448 (1.638–3.660)**	**<0.001**
Stroke In-Hospital	1.572 (0.581–4.253)	0.373	**4.216 (1.486–11.960)**	**0.007**
Major Vascular Complication	1.700 (0.867–3.332)	0.122	1.398 (0.544–3.593)	0.487
Life-Threatening or Disabling Bleeding	2.175 (0.805–5.876)	0.126	1.547 (0.381–6.272)	0.542
Permanent Pacemaker Implantation	1.131 (0.814–1.571)	0.463	1.167 (0.822–1.658)	0.387
Paravalvular Regurgitation ≥ 2	1.453 (0.538–3.922)	0.461	1.462 (0.475–4.495)	0.508

GFR = Glomerular filtration rate, COPD = Chronic Obstructive Pulmonary Disease