

Supplementary Table S1. Multivariate Cox regression analyses of futile events based on patients' baseline characteristics of preoperative factors. A hazard ratio (HR) above 1 increases the risk, below 1 decreases the risk of futility.

Supplementary Table S2. Multivariate Cox regression analyses of futile events based on patients' procedural characteristics. A hazard ratio (HR) above 1 increases the risk, below 1 decreases the risk of futility.

	Combined access			TF-TAVR			TA-TAVR					
	HR	95% CI	p	HR	95% CI	p	HR	95% CI	p			
Dichotomic parameters												
Predilatation necessary							1.461	0.763	2.798	0.253		
Conversion to open surgery	3.800	0.856	16.863	0.079			5.579	0.700	44.483	0.105		
Interval scaled parameters												
Contrast medium, cc				1.001	0.994	1.008	0.743					
Procedure time, min							1.001	0.995	1.007	0.767		
Total hours in the ICU	1.001	0.998	1.005	0.410	1.006	1.002	1.010	<0.001	1.001	0.997	1.005	0.696
Total hours ventilated	1.004	0.996	1.013	0.299					1.004	0.995	1.014	0.330
Length of stay after TAVR days	1.019	0.999	1.039	0.065					1.029	1.007	1.052	0.011

Supplementary Table S3. Multivariate Cox regression analyses of futile events based on patients' VARC-2 adverse events. A hazard ratio (HR) above 1 increases the risk, below 1 decreases the risk of futility.

	Combined access			TF-TAVR				TA-TAVR				
	HR	95% CI	p	HR	95% CI	p	HR	95% CI	p			
Dichotomic parameters												
Device success	0.693	0.175	2.745	0.601				0.228	0.085	0.613	0.003	
30-day combined safety endpoint	0.048	0.016	0.151	<0.001	0.120	0.046	0.311	<0.001	0.075	0.029	0.198	<0.001
Acute kidney injury	1.294	0.394	4.254	0.671				0.623	0.220	1.768	0.374	
New atrial fibrillation	1.575	0.619	4.007	0.341				1.184	0.515	2.723	0.690	
Reoperation for non-cardiac problems	1.925	0.514	7.214	0.331				0.776	0.301	2.003	0.601	

Reoperation for bleeding/tamponade	0.706	0.171	2.921	0.631				1.668	0.497	5.592	0.407
Pneumonia under antibiotic treatment								2.648	0.836	8.394	0.098
Major bleeding complication	0.721	0.200	2.596	0.617	2.764	0.990	7.717	0.052	0.168	0.052	0.540
New renal replacement therapy	0.063	0.005	0.834	0.036				3.620	0.743	17.629	0.111
Major vascular complication								2.034	0.450	9.189	0.356
Neurological adverse event	0.179	0.018	1.782	0.142	0.486	0.059	3.995	0.502	0.736	0.134	4.057
Reoperation for valvular dysfunction								0.479	0.084	2.743	0.409
Myocardial infarction	1.042	0.105	10.355	0.972				31.137	4.329	223.932	<0.001
Mean gradient post-implant	0.800	0.629	1.016	0.068	0.910	0.755	1.098	0.325			
Max. gradient post-implant	1.082	0.932	1.257	0.301	0.967	0.849	1.102	0.618			
Max. flow post-implant	0.640	0.268	1.529	0.315	1.026	0.278	3.785	0.969			