

Figure S1. Flowchart of the study; PSM, propensity score matching.

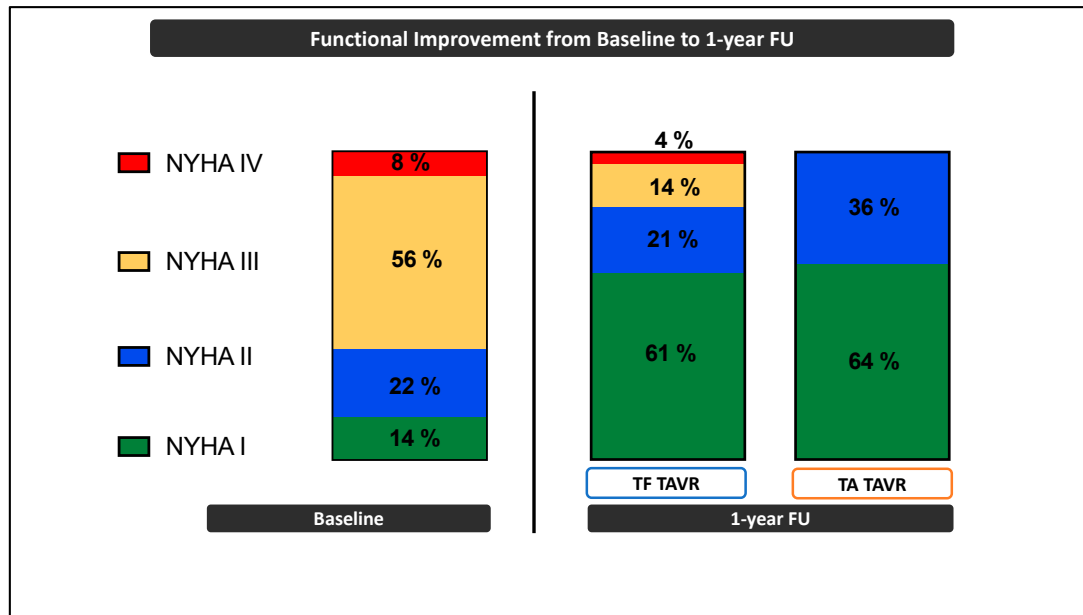


Figure S2. Functional improvement during 1-year follow-up (FU).

Table S1. Patient clinical and functional characteristics (propensity score-matched cohort).

| Clinical Data | Overall (n = 340) | TF (n = 290) | TA (n = 50) | p-Value |
|------------------------|----------------------|-----------------|----------------|----------|
| Age, years | 77.4 ± 7.2 | 78.1 ± 6.8 | 73.4 ± 8.3 | <0.001 * |
| Gender, male | 202 (59.4) | 161 (55.5) | 41 (82.0) | <0.001 * |
| BMI | 27.7 ± 4.9 | 27.7 ± 5.0 | 27.7 ± 4.6 | 0.986 |
| CAD | 230 (67.7) | 193 (66.6) | 37 (74.0) | 0.298 |
| Previous PCI | 104 (30.6) | 89 (30.7) | 15 (30.0) | 0.922 |
| Previous CABG | 48 (14.1) | 35 (12.1) | 13 (26.0) | 0.009 * |
| Previous valve | 12 (3.5) | 10 (3.5) | 2 (4.0) | 0.845 |
| Previous PPI | 34 (10.0) | 28 (9.7) | 6 (12.0) | 0.610 |
| Arterial hypertension | 309 (90.9) | 261 (90.0) | 48 (96.0) | 0.173 |
| PHT | 219 (64.4) | 194 (66.9) | 25 (50.0) | 0.021 * |
| Diabetes mellitus | 87 (25.6) | 72 (21.2) | 15 (30.0) | 0.099 |
| PAD | 81 (23.8) | 52 (17.9) | 29 (58.0) | <0.001 * |
| CVD | 63 (18.5) | 54 (18.6) | 9 (18.0) | 0.917 |
| Porcelain aorta | 37 (10.9) | 24 (12.0) | 12 (24.0) | 0.001 * |
| Hostile aorta | 64 (18.8) | 56 (19.3) | 8 (16.0) | 0.580 |
| Previous RRT | 1 (0.3) | 1 (0.3) | 0 (0.0) | 0.678 |
| CKD | 131 (38.5) | 116 (40.0) | 15 (30.0) | 0.180 |
| COPD | 80 (23.5) | 67 (23.1) | 13 (26.0) | 0.656 |
| Frailty | 72 (21.2) | 59 (20.3) | 13 (26.0) | 0.366 |
| Functional Data | | | | |
| STS score, % | 2.7 ± 0.8 | 2.7 ± 0.8 | 2.5 ± 0.9 | 0.230 |
| HAS-BLED score | 2.9 ± 0.9 | 2.9 ± 0.9 | 2.8 ± 1.0 | 0.554 |
| LVEF, % | 55.1 ± 11.5 | 55.4 ± 11.5 | 52.7 ± 11.7 | 0.373 |
| AVA, cm ² | 0.8 ± 0.2 | 0.8 ± 0.2 | 0.8 ± 0.2 | 0.318 |
| dPmax, mmHg | 62.0 ± 23.3 | 61.5 ± 23.2 | 65.7 ± 23.9 | 0.306 |
| dPmean, mmHg | 39.0 ± 15.9 | 38.4 ± 15.6 | 43.2 ± 17.7 | 0.087 |

* $p < 0.05$; values are means ± SD, medians ± interquartile range, or n (%). AVA, aortic valve area; BMI, body mass index; CABG, coronary artery bypass graft; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; CVD, cerebrovascular disease; dPmean/max, mean/max. transvalvular gradient; LVEF, Left ventricular ejection fraction; PCI, percutaneous coronary

intervention; PHT, pulmonary hypertension; PAD, peripheral artery disease; PPI, permanent pacemaker implantation; RRT, renal replacement therapy.