



Supplementary Figure S1. Kaplan-Meier estimated survival curves for the single-ventricle impaired strain group according to LV GLS or RV FWS impairment.

LV GLS: Left ventricular global longitudinal strain; RV FWS: Right ventricular free wall strain; TAVI: transcatheter aortic valve implantation.

Supplementary Table S1. Baseline clinical and echocardiographic characteristics of the included and excluded patients.

| | Included patients n=712 | Excluded patients n=319 | p- value |
|----------------------------------|----------------------------|----------------------------|----------|
| Age, years | 80 (± 7) | 79 (± 7) | 0.041 |
| Male sex, n (%) | 377 (53) | 177 (55) | 0.556 |
| BSA, m ² | 1.9 (± 0.2) | 1.8 (± 0.2) | 0.005 |
| Smoking, n (%) | 153 (23) | 65 (20) | 0.404 |
| Arterial hypertension, n (%) | 527 (74) | 241 (75) | 0.879 |
| Diabetes mellitus, n (%) | 201 (28) | 99 (31) | 0.557 |
| Dyslipidemia, n (%) | 447 (63) | 213 (67) | 0.579 |
| Coronary artery disease, n (%) | 421 (59) | 194 (61) | 0.787 |
| Peripheral artery disease, n (%) | 208 (29) | 85 (27) | 0.237 |
| Chronic kidney disease, n (%) | 52 (7) | 56 (8) | 0.394 |
| Atrial fibrillation, n (%) | 169 (24) | 94 (29) | 0.066 |
| NYHA class III-IV, n (%) | 403 (57) | 204 (64) | 0.055 |

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|---|--------------|--------------------------|-------|
| LV end– diastolic volume index, mL | 55 (±24) | 54 (±24)/102 missings | 0.399 |
| LV end– systolic volume index, mL | 26 (±19) | 27(±18)/102 missings | 0.635 |
| LV ejection fraction, % | 55 (±14) | 54 (±14)/102 missings | 0.023 |
| LV mass index, g/m ² | 125 (±38) | 129 (±42) | 0.895 |
| LV global longitudinal strain, % | 13 (±4) | 13 (±4)/194 missings | 0.738 |
| Left atrial volume index, mL/m ² | 41 (31 – 53) | 41 (31 - 52)/99 missings | 0.293 |
| E/e' ratio | 17 (12 – 24) | 17 (12 - 24)/98 missings | 0.463 |
| Severe mitral regurgitation | 40 (6) | 8 (3) | 0.053 |
| Aortic valve area, cm ² | 0.8 (±0.3) | 0.8 (±0.3) | 0.060 |
| Severe aortic regurgitation | 17 (2) | 7 (2) | 0.248 |
| TAPSE, mm | 19 (±5) | 19 (±5)/103 missings | 0.865 |
| RV free wall strain, % | 22 (±7) | 20 (±6)/202 missings | 0.080 |
| PASP, mmHg | 35 (29 – 44) | 35 (29 - 44)/97 missings | 0.916 |
| Severe tricuspid regurgitation | 33 (5) | 11 (3) | 0.892 |
| <p>Values are expressed as mean ±SD, median (IQR) or n (%).</p> <p>Abbreviations: BSA: Body Surface Area; NYHA: New York Heart Association; LV: left ventricle, TAPSE: tricuspid annular plane systolic excursion; RV: right ventricle; PASP: pulmonary artery systolic pressure.</p> | | | |