

Supplementary Table 1. Correlations between MRI variables and ELF test

| MRI variables | Measure | PIIINP | | TIMP-1 | | HA | | ELF score | |
|---|---------------------|--------|---------|--------|---------|--------|---------|-----------|---------|
| | | r | p value | r | p value | r | p value | r | p value |
| Heart rate (beats/min) | 71 ± 13 | -0.150 | 0.361 | 0.249 | 0.127 | -0.133 | 0.421 | -0.166 | 0.314 |
| End-diastolic volume (mL/m ²) | 92.3 (77.5 - 105.6) | 0.328 | 0.042 | -0.095 | 0.565 | 0.070 | 0.672 | 0.207 | 0.206 |
| End-systolic volume (mL/m ²) | 41.5 (34.1 - 54.5) | 0.213 | 0.192 | 0.050 | 0.764 | 0.120 | 0.466 | 0.204 | 0.213 |
| Stroke volume (mL/m ²) | 48.5 ± 8.7 | 0.341 | 0.034 | -0.108 | 0.511 | -0.045 | 0.785 | 0.171 | 0.297 |
| Cardiac index (L/min/m ²) | 3.3 (3.0 – 3.7) | 0.198 | 0.227 | 0.065 | 0.692 | -0.183 | 0.265 | -0.021 | 0.898 |
| Ejection fraction | 0.54 (0.48 – 0.59) | -0.008 | 0.964 | -0.099 | 0.548 | -0.005 | 0.975 | -0.050 | 0.762 |
| End-diastolic myocardial mass (g/m ²) | 50.6 ± 15.9 | 0.216 | 0.198 | -0.124 | 0.466 | 0.074 | 0.662 | 0.209 | 0.215 |
| AO flow (L/min/m ²) | 2.9 ± 0.4 | 0.196 | 0.233 | 0.146 | 0.374 | -0.118 | 0.475 | 0.068 | 0.681 |
| Systemic venous flow (L/min/m ²) | 2.3 ± 0.4 | 0.445 | 0.005 | 0.282 | 0.083 | -0.085 | 0.606 | 0.253 | 0.119 |
| IVC flow (L/min/m ²) | 1.6 ± 0.3 | 0.465 | 0.003 | 0.278 | 0.087 | -0.073 | 0.658 | 0.248 | 0.127 |
| SVC flow (L/min/m ²) | 0.7 ± 0.1 | 0.219 | 0.180 | 0.176 | 0.284 | -0.078 | 0.638 | 0.162 | 0.325 |
| IVC / SVC flow | 2.4 ± 0.5 | 0.192 | 0.241 | 0.065 | 0.694 | 0.017 | 0.919 | 0.062 | 0.710 |
| Pulmonary artery flow (L/min/m ²) | 2.2 (1.9 - 2.4) | 0.179 | 0.277 | 0.202 | 0.217 | 0.069 | 0.674 | 0.120 | 0.466 |
| Pulmonary venous flow (L/min/m ²) | 2.9 ± 0.5 | 0.108 | 0.513 | 0.276 | 0.089 | -0.077 | 0.640 | 0.056 | 0.735 |
| Qcoll-pulm flow (L/min/m ²) | 0.56 ± 0.24 | -0.101 | 0.540 | 0.033 | 0.841 | -0.040 | 0.808 | -0.078 | 0.637 |
| Qcoll-pulm/AO flow x 100 (%) | 19 ± 7 | -0.205 | 0.211 | -0.014 | 0.933 | 0.026 | 0.874 | -0.094 | 0.569 |
| McGoon index | 2.5 ± 0.7 | -0.096 | 0.563 | 0.004 | 0.981 | -0.005 | 0.976 | -0.087 | 0.598 |
| Nakata index (mm ² /m ²) | 245 ± 56 | -0.077 | 0.641 | 0.295 | 0.068 | 0.061 | 0.712 | 0.043 | 0.793 |

Data are represented as mean ± SD or median (IQR) and Pearson's or Spearman's coefficients as appropriate. AO, aorta; HA, hyaluronic acid; IVC, inferior vena cava; LPA, left pulmonary artery; PIIINP, procollagen III amino-terminal peptide; Qcoll-pulm, aortopulmonary collateral flow; RPA, right pulmonary artery; RPV, right pulmonary vein; SVC, superior vena cava; TIMP-1, inhibitors of matrixmetaloproteinases