

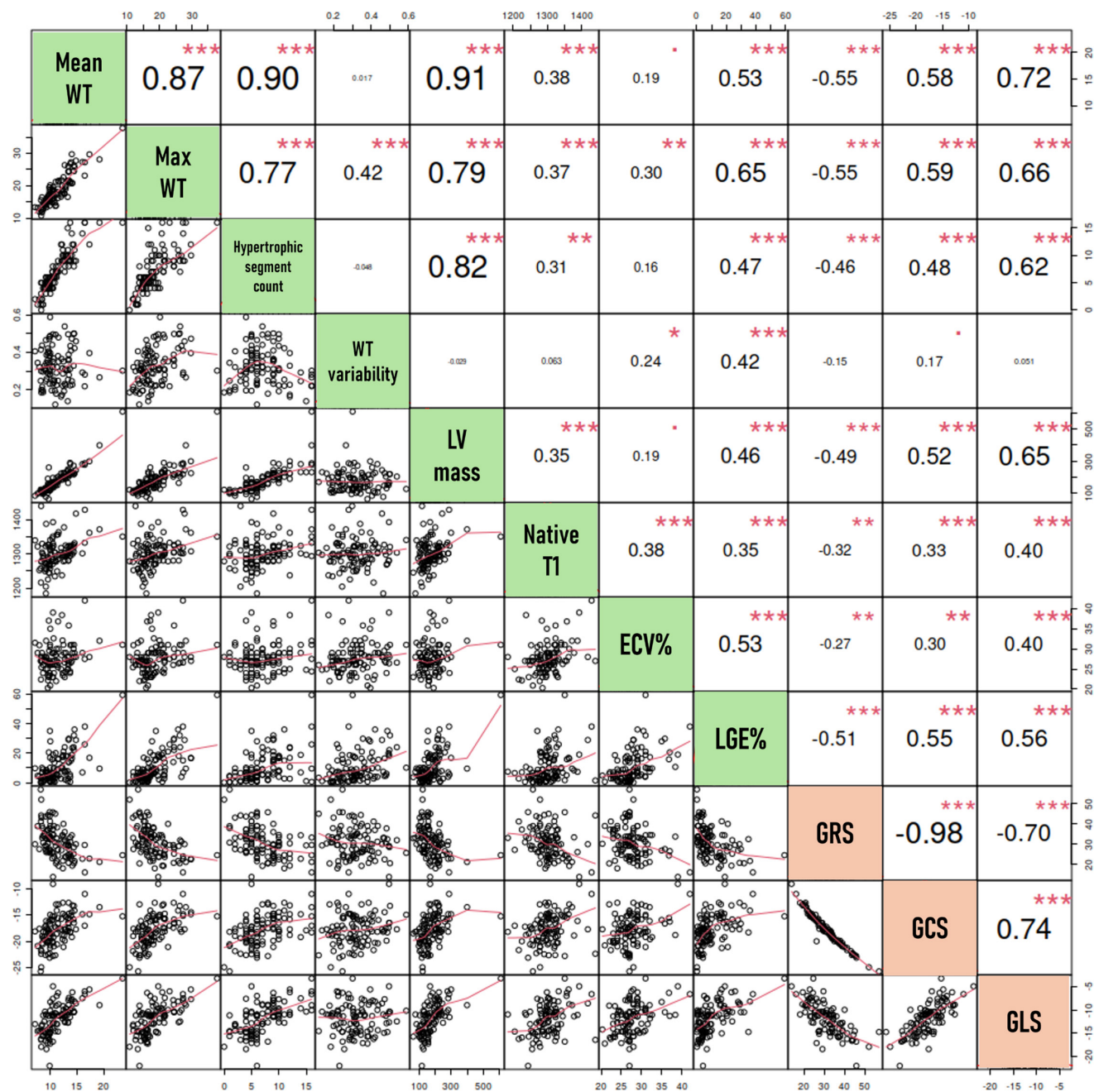


Figure S1 Correlation matrix of cardiovascular parameters. The upper triangle shows the correlation coefficients (larger values indicate stronger correlation). *** $P < 0.001$, ** $P < 0.05$, and * $P < 0.1$ indicate significance levels. The lower triangle shows the scatter plots with trend lines illustrating correlation trends. Parameters: LVEDV, LVESV, LVEF, LAESV, LAEDV, LAEF, GRS, GCS, GLS. LVEDV, left ventricular end-diastolic volume; LVESV, left ventricular end-systolic volume; LVEF, left ventricular ejection fraction; LAESV, left atrial end-systolic volume; LAEDV, left atrial end-diastolic volume; LAEF, left atrial ejection fraction; GRS, global radial strain; GCS, global circumferential strain; GLS, global longitudinal strain.

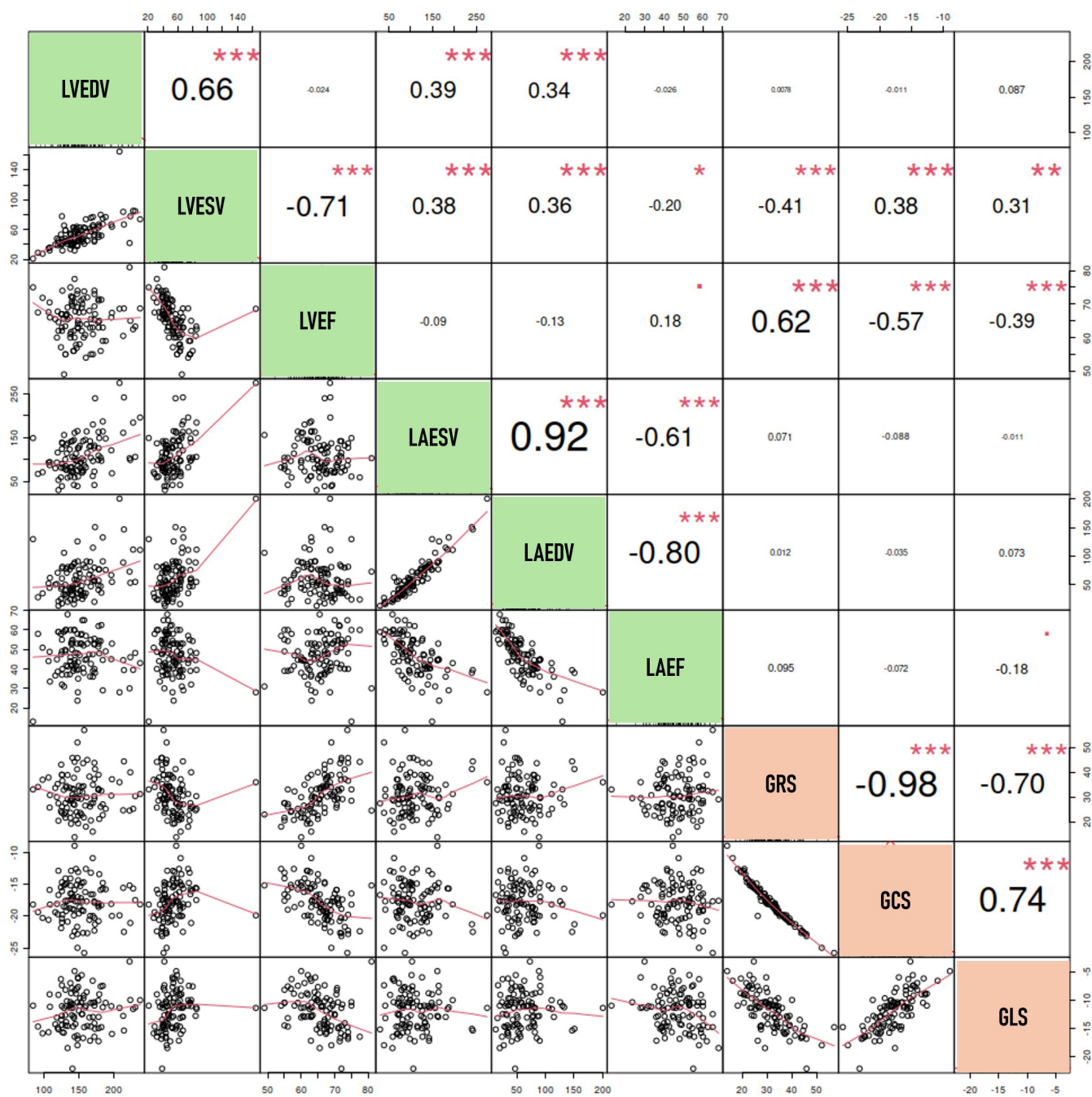


Figure S2 Correlation matrix of cardiac parameters. The upper triangle displays the correlation coefficients (higher values indicate a stronger correlation). *** $P < 0.001$, ** $P < 0.05$, and * $P < 0.1$ indicate significance levels. Lower triangle shows scatter plots with trend lines reflecting correlation trends. Parameters: mean WT, maximum WT, hypertrophic segment count, WT variability, LV mass, native T1, ECV%, LGE%, GRS, GCS, and GLS. WT, wall thickness; LV, left ventricular; ECV%, extracellular volume fraction; LGE%, late gadolinium enhancement percentage; GCS, global circumferential strain; GLS, global longitudinal strain; GRS, global radial strain.

Table S1 The inter-observer agreement of strain paraments across global, base, mid, and apex (30 of HOCMs)

Strain parameter	Global	Base	Mid	Apex
Radial	0.935 (0.864–0.968)	0.962 (0.919–0.981)	0.92 (0.837–0.961)	0.956 (0.921–0.982)
Circumferential	0.897 (0.792–0.95)	0.92 (0.837–0.961)	0.918 (0.837–0.961)	0.845 (0.699–0.924)
Longitudinal	0.921 (0.845–0.963)	0.962 (0.919–0.981)	0.975 (0.947–0.988)	0.91 (0.814–0.955)

Data are presented as intraclass correlation coefficient (95% confidence interval).