

Table S1 CMR imaging parameters

Characteristics	Cine sequence		LGE sequence	
	1.5T	3.0T	1.5T	3.0T
TR (ms)	3.7	2.7	6.2	6.1
TE (ms)	1.8	1.4	3	3
Flip angle (deg)	60	45	25	25
In-plane resolution (mm ²)	1.4×1.4	1.8×1.8	1.6×1.6	1.6×1.9
Slice thickness (mm)	8	8	8	8
FOV (mm)	320×276	350×350	320×282	350×350

CMR, cardiovascular magnetic resonance; TR, repetition time; TE, echo time; FOV, field of view; LGE, late gadolinium-enhanced.

Table S2 Changes in CMR characteristics between baseline and follow-up

Characteristics	R-LVR group (n=47)			Non-R-LVR group (n=58)		
	Baseline	Follow-up	P value	Baseline	Follow-up	P value
LVEDV (mL)	156.73 (140.39, 216.65)	141.57 (127.67, 156.69)	0.007*	147.17 (120.67, 176.35)	161.07 (141.27, 190.52)	0.006*
LVESV (mL)	79.35 (63.65, 98.92)	62.33 (46.87, 75.37)	<0.001*	73.18 (58.79, 94.62)	84.19 (63.61, 105.25)	0.090
LVEF (%)	48.61 (±11.64)	56.92 (±9.55)	<0.001*	49.88 (±8.80)	49.54 (±10.82)	0.935
Myocardial mass (g)	108.79 (94.14, 136.31)	93.84 (79.02, 123.37)	0.033*	115.74 (91.62, 135.22)	105.61 (85.28, 122.17)	0.023*
Infarct mass (g)	21.4 (10.91, 32.14)	13.83 (8.89, 21.56)	0.021*	31.76 (21.86, 47.74)	23.10 (13.49, 33)	<0.001*
MVO mass (g)	0 (0, 0)	0 (0, 0)	0.002*	1.12 (0, 3.31)	0 (0, 0)	<0.001*
LV strain						
Radial (%)	20.73 (14.83, 25.92)	24.22 (16.21, 28.6)	<0.001*	18.80 (15.36, 25.01)	20.36 (16.58, 24.78)	<0.001*
Circumferential (%)	−13.07 (±3.76)	−14.87 (±3.94)	<0.001*	−13.02 (±3.23)	−13.75 (±2.90)	<0.001*
Longitudinal (%)	−11.67 (−13.15, −9.44)	−13.01 (−14.86, −10.47)	<0.001*	−11.14 (−13.08, −8.62)	−11.77 (−13.34, −10.43)	<0.001*
LV displacement						
Radial (mm)	4.01 (±1.13)	4.42 (±1.15)	<0.001*	3.96 (±0.94)	4.28 (±1.79)	<0.001*
Circumferential (deg)	1.6 (1.03, 2.02)	1.32 (1, 1.83)	<0.001*	1.7 (0.83, 2.37)	1.47 (0.73, 2.32)	<0.001*
Longitudinal (mm)	2.63 (±0.94)	2.99 (±0.79)	<0.001*	2.27 (±1.03)	2.82 (±0.87)	<0.001*
LA volume (mL)						
LAV _{max}	68.23 (51.44, 82.98)	63.16 (53.97, 76.85)	0.741	61.98 (47.03, 75.72)	70.10 (55.12, 84.96)	0.038*
LAV _{pre-a}	56.27 (±22.08)	51.93 (±18.48)	0.422	48.03 (±17.86)	53.84 (±19.51)	0.071
LAV _{min}	31.08 (21.58, 45.18)	27.61 (20.12, 36.74)	0.381	26.30 (19.58, 33.38)	28.55 (19.97, 37.90)	0.258
LA emptying fraction (%)						
Total	43.24 (47.24, 59.67)	57.40 (50.11, 64.50)	0.095	55.96 (48.57, 63.81)	57.42 (50.18, 64.16)	0.625
Passive	21.34 (15.81, 24.93)	24.03 (19.35, 27.80)	0.054	21.44 (17.34, 28.13)	23.89 (19.46, 29.97)	0.298
Active	41.58 (36.04, 47.56)	44.74 (38.74, 51.74)	0.176	43.24 (34.11, 48.70)	43.13 (36.53, 49.91)	0.906
LA strain (%)						
Reservoir	20.70 (±6.62)	23.19 (±8.54)	0.093	21.63 (±7.86)	24.38 (±9.20)	0.094
Conduit	10.03 (7.00, 13.41)	11.77 (8.50, 13.69)	0.125	10.21 (7.46, 14.02)	11.64 (9.88, 16.25)	0.107
Booster	10.70 (7.39, 12.7)	10.50 (8.65, 13.90)	0.611	10.24 (7.35, 12.49)	10.67 (8.19, 13.76)	0.246
LA strain rate (s ^{−1})						
Reservoir	0.96 (±0.30)	1 (±0.36)	0.588	1.11 (±0.40)	1.06 (±0.38)	0.465
Conduit	−0.8 (−1.34, −0.60)	−0.94 (−1.24, −0.70)	0.371	−1.07 (−1.32, −0.63)	−1.15 (−1.40, −0.72)	0.354
Booster	−1.3 (−1.60, −0.97)	−1.23 (−1.80, −0.82)	0.785	−1.415 (−1.71, −1.03)	−1.22 (−1.67, −0.94)	0.247

Values are presented as the mean ± standard deviation, or median (interquartile range). *, statistically significant difference. CMR, cardiovascular magnetic resonance; R-LVR, reverse left ventricular remodeling; LV, left ventricular; LVEDV, left ventricular end-diastolic volume; LVESV, left ventricular end-systolic volume; LVEF, left ventricular ejection fraction; MVO, microvascular obstruction; LA, left atrial; LAV_{max}, left atrial end-diastole volume; LAV_{pre-a}, left atrial early-end systole volume; LAV_{min}, left atrial late-end systole volume.

Table S3 Reproducibility analysis of some cardiac magnetic resonance parameters

Characteristics	Intra-observer reliability		Inter-observer reliability	
	ICC	95% CI	ICC	95% CI
LVEDV (mL)	0.991	0.977–0.996	0.975	0.938–0.990
LVESV (mL)	0.996	0.990–0.998	0.975	0.937–0.990
LVEF (%)	0.945	0.869–0.978	0.870	0.701–0.947
Total enhanced mass (g)	0.988	0.971–0.995	0.871	0.511–0.957
MVO mass (g)	0.969	0.925–0.988	0.890	0.747–0.955
LV displacement				
Radial (mm)	0.931	0.836–0.972	0.760	0.468–0.900
Circumferential (deg)	0.998	0.995–0.999	0.758	0.491–0.896
Longitudinal (mm)	0.922	0.816–0.968	0.753	0.471–0.895
LA volume (mL)				
LAV _{max}	0.998	0.993–0.999	0.917	0.760–0.970
LAV _{pre-a}	0.997	0.992–0.999	0.900	0.738–0.962
LAV _{min}	0.989	0.971–0.996	0.913	0.774–0.967
LA strain rate (s ⁻¹)				
Reservoir	0.995	0.986–0.998	0.776	0.500–0.909
Conduit	0.928	0.816–0.972	0.886	0.771–0.956
Booster	0.927	0.818–0.972	0.830	0.555–0.936

CI, confidence interval; ICC, intraclass correlation coefficient; LV, left ventricular; HR, heart rate; LVEDV, left ventricular end-diastolic volume; LVESV, left ventricular end-systolic volume; LVEF, left ventricular ejection fraction; MVO, microvascular obstruction; LA, left atrial; LAV_{max}, left atrial end-diastole volume; LAV_{pre-a}, left atrial early-end systole volume; LAV_{min}, left atrial late-end systole volume.