

Table S1 Comparisons of mechanical deformation parameters before ablation, 1-day and 3-month post ablation in the paroxysmal atrial fibrillation group

	Before ablation (n=28)	1-day post ablation (n=28)	3-month post ablation (n=28)	P value
LASr	17.48±6.75	18.11±5.64	19.61±6.00	0.15
LASRr	1.30±0.33	1.40±0.32	1.46±0.40	0.07
LASRe	-1.04±0.32	-1.18±0.93	-1.13±0.33	0.50
LASRa	-1.09±0.47	-1.20±0.46	-1.18±0.45	0.16

LASr, peak positive longitudinal strain during atrial filling; LASRr, strain rate during ventricular systole as an index for left atrial reservoir function; LASRe and LASRa, peak negative conduit and contractile strain rates during left ventricular early and late refilling, respectively.

Table S2 Comparisons of mechanical deformation parameters before ablation, 1-day and 3-month post ablation in patients with and without additional left atrial linear ablation (LARF) in the paroxysmal atrial fibrillation group

		Before ablation	1-day post ablation	3-month post ablation	P value
LASr	LARF (+) (n=14)	17.61±7.02	17.69±4.12	19.78±5.70	0.44
	LARF (-) (n=14)	17.35±6.74	18.52±6.98	19.43±6.49	0.12
LASRr	LARF (+) (n=14)	1.28±0.23	1.38±0.17	1.51±0.33	0.08
	LARF (-) (n=14)	1.32±0.41	1.42±0.43	1.41±0.46	0.36
LASRe	LARF (+) (n=14)	-1.10±0.29	-1.07±0.34	-1.24±0.36	0.17
	LARF (-) (n=14)	-0.97±0.34	-1.30±1.29	-1.01±0.25	0.36
LASRa	LARF (+) (n=14)	-1.10±0.43	-1.19±0.36	-1.16±0.28	0.53
	LARF (-) (n=14)	-1.08±0.52	-1.20±0.56	-1.21±0.58	0.19

LASr, peak positive longitudinal strain during atrial filling; LASRr, strain rate during ventricular systole as an index for left atrial reservoir function; LASRe and LASRa, peak negative conduit and contractile strain rates during left ventricular early and late refilling, respectively.

Table S3 Comparisons of mechanical deformation parameters 1-day and 3-month post ablation in the non-paroxysmal atrial fibrillation group

	1-day post ablation (n=26)	3-month post ablation (n=26)	P value
LASr	12.50±4.32	13.16±5.15	0.22
LASRr	1.05±0.24	1.06±0.7	0.90
LASRe	-1.02±0.37	-1.07±0.40	0.23
LASRa	-0.71±0.27	-0.74±0.37	0.64

LASr, peak positive longitudinal strain during atrial filling; LASRr, strain rate during ventricular systole as an index for left atrial reservoir function; LASRe and LASRa, peak negative conduit and contractile strain rates during left ventricular early and late refilling, respectively.

Table S4 Comparisons of the beat-to-beat difference when study group in sinus rhythm

	Cycle 1 (n=5)	Cycle 2 (n=5)	P value
LASr (%)	19.84±7.48	19.78±8.26	0.95
LASRr (S ⁻¹)	1.33±0.32	1.24±0.24	0.30
LASRe (S ⁻¹)	-1.24±0.33	-1.13±0.36	0.37
LASRa (S ⁻¹)	-1.04±0.66	-1.05±0.71	0.92

LASr, peak positive longitudinal strain during atrial filling; LASRr, strain rate during ventricular systole as an index for left atrial reservoir function; LASRe and LASRa, peak negative conduit and contractile strain rates during left ventricular early and late refilling, respectively.