Table S1. Baseline characteristics of the study population: **A.** Demographic and clinical data

	n	All group, n = 172	n	AF group, n = 74	n	SR group, n = 98	*P*-value
Demographic data							
Paroxysmal AF, n (%)	172	106 (61.6)	74	15 (20.3)	98	91 (92.8)	<0.001
Non-paroxysmal AF, n (%)	172	66 (38.4)	74	59 (79.7)	98	7 (7.14)	<0.001
Age, years, median (IQR)	172	64.5 (56–70)	74	67 (57–71)	98	63 (54–70)	0.06
Female gender, n (%)	172	74 (43)	74	23 (31.08)	98	51 (52.04)	0.008
Body mass index, median (IQR)	170	29.9 (26.6–33.2)	73	30.8 (20.7–34.1)	97	29.7 (26–32)	0.24
Clinical data, n (%)							
Heart failure	172	38 (22.1)	74	20 (27)	98	18 (18.4)	0.19
NYHA I/II	172	31 (18)	74	16 (21.6)	98	15 (14.7)	0.29
NYHA III	172	6 (3.5)	74	4 (5.4)	98	2 (2)	0.24
NYHA IV	172	1 (0.6)	74	0 (0)	98	1 (0.1)	0.39
Hypertension	172	122 (71)	74	55 (74.3)	98	67 (68.4)	0.49
Transient ischemic attack/Stroke	172	11 (6.4)	74	6 (8.1)	98	5 (5.1)	0.61
Chronic kidney disease	172	28 (16.3)	74	15 (20.3)	98	13 (13.3)	0.29
Laboratory data, median (IQR)							
eGFR, ml/min/1.73m^2	172	90 (59-90)	74	90 (57-90)	98	90 (90-90)	0.27

Abbreviations: AF, atrial fibrillation; eGFR, estimated glomerular filtration rate

Table S1. Baseline characteristics of the study population: **B.** Echocardiographic data

	n	All group, n = 172	n	AF group, n = 74	n	SR group, n = 98	*P*-value
Echocardiographic data, median (IQR)							
RVDd, mm	172	30 (28–32)	74	30.4 (28–32)	98	29 (27–32)	0.12
IVSd, mm	172	10 (9–12)	74	11 (10–12)	98	10 (9–11)	<0.001
LVDd, mm	172	49 (47–53)	74	48 (45–53)	98	50.5 (47–52)	0.09
LVMI, g/m^2	169	116.4 (100.5–139)	73	123.6 (103–139)	96	112 (99–138)	0.23
LVH, n(%)	169	62 (36.7)	73	38 (52)	96	24 (25)	<0.001
e' average, cm/s	167	8.5 (7–9.5)	70	9 (7–10)	97	7.5 (6.5–9.5)	0.007
E/e' average	165	8.76 (7–11.3)	70	9.12 (7.6–12.8)	95	8.5 (6.4–11)	0.057
LV EF, %	170	61 (56–64)	72	57 (52.5–62.5)	98	63 (60–65)	<0.0001
LAVI, ml/m^2	170	39.4 (33.2–46.5)	72	44.5 (37–54)	98	36.6 (31–42)	<0.001
LAEF, %	165	40.5 (14.02)	70	32.5 (12.2)	94	46.52 (12.2)	<0.001
LA enlargement, n(%)	172	123 (71.5)	74	62 (83.8)	98	61 (62.2)	0.002
PA-TDI, median (IQR)	88	156 (144.5–175.5)			88	156 (144.5–175.5)	
RAa, cm^2, median (IQR)	172	17.5 (15–20.7)	74	20.3 (17.2–22.5)	98	16.4 (14.1–18.1)	0.04
Speckle tracking echocardioraphy data — left atrial and left ventricular function parameters							

LASr, %, mean (SD)	162	18,12 (8.83)	69	11.18 (3.53)	93	23.28 (8.01)	<0.001
LASct, %, mean (SD)	92	12.26 (4.98)			93	12.26 (4.98)	
LAScd, %, mean (SD)	92	12.8 (4.73)			93	12.8 (4.73)	
LV GLS, %, median (IQR)	151	17.9 (14.4–20.2)	61	14.1 (12–16.5)	90	19.7 (17.9–21.1)	<0.001
CSI	92	51.27 (12.94)			93	51.27 (12.94)	
Left atrial pressure, median (IQR)							
LAP peak, mm Hg	162	20 (16–28)	70	22 (18–30)	92	19 (15–26)	0.007
LAP min, mm Hg	162	10 (7–13)	70	10.5 (8–12)	92	10 (7–13)	0.19
LAP mean, mm Hg	162	14 (11–18)	70	16.8 (13–20)	92	14 (10–17.5)	0.014

Abbreviations: CSI, contraction strain index; IVSd, interventricular septal dimension; LA, left atrial; LAEF, left atrial emptying fraction; LAP, left atrial pressure; LAScd, left atrial strain during conduit phase; LASct, left atrial strain during contraction phase; LASr, left atrial strain during reservoir phase; LAV, left atrial volume; LAVI, left atrial volume index; LVDd, left ventricular end-diastolic dimension; LV EF, left ventricular ejection fraction; LV GLS, left ventricular global longitudinal strain; LVH, left ventricular hypertrophy; LVM, left ventricular mass; LVMI, left ventricular mass index; PA-TDI, total atrial conduction time; RAa, right atrial area; RVDd, right ventricular end-diastolic dimension

Table S2. Results of Spearman's correlation analysis for age and left atrial strain parameters

Spearman's rank correlation coefficient (r$_s$)	All group	AF group	SR group
	Age	Age	Age
LASr	–0.28[a]	-0.14	–0.39[a]
LASct	–0.25[a]		–0.25[a]
LAScd	–0.49[a]		–0.49[a]

[a]$P <0.05$

Abbreviations: see *Table S1*.