

**eTable 1.** Risks of LAD, LAV and LAVI increases for the incidence of AF in 667 participants: the Suita study

	n	Cases	Range of the parameter mean (SD)	Age and sex-adjusted HR and 95% CI	Multivariable-adjusted HR and 95% CI
Left atrial dimension, mm	667	10	15.8–44.3 31.3 (4.8)	1.28 ( 1.10 – 1.50 )	1.22 ( 1.04 – 1.44 )
Left atrial volume, mL	667	10	11.1–93.3 32.9 (11.1)	1.07 ( 1.03 – 1.12 )	1.06 ( 1.02 – 1.10 )
Left atrial volume index, mL/m <sup>2</sup>	667	10	7.8–71.2 21.6 (7.3)	1.10 ( 1.04 – 1.17 )	1.10 ( 1.02 – 1.17 )

AF, atrial fibrillation; BMI, body mass index; CI, confidence interval; HDL-C, high density lipoprotein-cholesterol; HR, hazard ratio; LAD, left atrial dimension; LAV, left atrial volume; LAVI, left atrial volume index; SD, standard deviation.

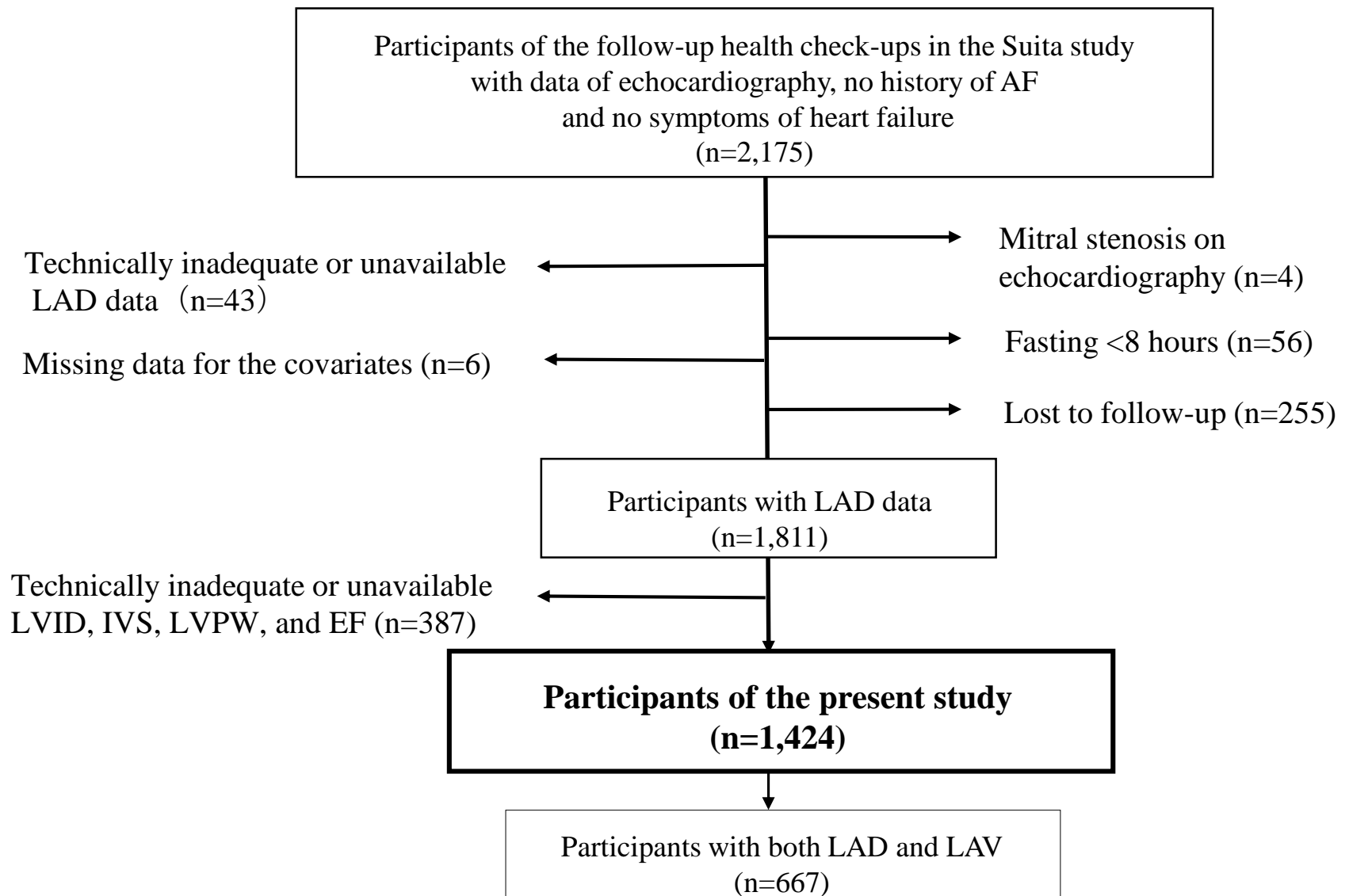
Multivariable-adjusted HR: age, sex, overweight (BMI  $\geq 25.0$  kg/m<sup>2</sup>), hypertension (systolic blood pressure  $\geq 140$  mm Hg and/or diastolic blood pressure  $\geq 90$  mm Hg and/or present medication for hypertension), current excessive alcohol drinking, and non-HDL-C.

**eTable 2.** Risks of 1-SD increase of LAD, LAV, and LAVI for the incidence of AF in 667 participants: the Suita study

	n	Cases	Range of the parameter mean (SD)	Parameter increment	Age and sex-adjusted HR and 95% CI	Multivariable-adjusted HR and 95% CI
Left atrial dimension, mm	667	10	15.8–44.3 31.3 (4.8)	4.8	3.30 ( 1.58 – 6.89 )	2.63 ( 1.20 – 5.80 )
Left atrial volume, mL	667	10	11.1–93.3 32.9 (11.1)	11.1	2.17 ( 1.38 – 3.42 )	1.94 ( 1.18 – 3.18 )
Left atrial volume index, mL/m <sup>2</sup>	667	10	7.8–71.2 21.6 (7.3)	7.3	2.00 ( 1.29 – 3.09 )	1.91 ( 1.17 – 3.12 )

AF, atrial fibrillation; BMI, body mass index; CI, confidence interval; HDL-C, high density lipoprotein-cholesterol; HR, hazard ratio; LAD, left atrial dimension; LAV, left atrial volume; LAVI, left atrial volume index; SD, standard deviation.

Multivariable-adjusted HR: age, sex, overweight (BMI  $\geq 25.0$  kg/m<sup>2</sup>), hypertension (systolic blood pressure  $\geq 140$  mm Hg and/or diastolic blood pressure  $\geq 90$  mm Hg and/or present medication for hypertension), current excessive alcohol drinking, and non-HDL-C.



**eFigure 1.** Inclusion and exclusion criteria of participants: the Suita study in 2007–2018. AF: atrial fibrillation, LAD: left atrial dimension, LVID: left ventricular internal dimension, IVS: interventricular septum, LVPW: left ventricular posterior wall, EF: ejection fraction, LAV: left atrial volume.