

Supplementary Online Content

Chen HY, Dufresne L, Burr H, et al. Association of *LPA* variants with aortic stenosis: a large-scale study using diagnostic and procedural codes from electronic health records. *JAMA Cardiol*. Published online November 12, 2017.
doi:10.1001/jamacardio.2017.4266

eTable 1. Association of *LPA* Variants With AS in Multivariable Models Adjusted for Cardiovascular Risk Factors and CAD

eTable 2. Association of *LPA* Variants With Age of Diagnosis of AS

eTable 3. Interaction of *LPA* Variants With Clinical Risk Factors For Associations With AS

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1: Association of *LPA* variants with AS in multivariable models adjusted for cardiovascular risk factors and CAD.

<i>LPA</i> Variant	Association with AS (n = 42,353)	
	OR (95% CI)	p Value
rs10455872	1.26 (1.14-1.38)	2.5×10^{-6}
rs3798220	1.26 (1.04-1.53)	0.017
Risk score	1.27 (1.16-1.38)	9.1×10^{-8}

Models were adjusted for age, age², sex, dyslipidemia, smoking, diabetes mellitus, hypertension, and CAD. Odds ratios are per risk allele. AS: aortic stenosis; CAD: coronary artery disease; CI: confidence interval; OR: odds ratio.

eTable 2: Association of *LPA* variants with age of diagnosis of AS.

<i>LPA</i> Variant	Effect Size in Years (95% CI)	p Value
rs10455872	-0.71 (-1.42 to 0.00)	0.049
rs3798220	-0.25 (-1.68 to 1.19)	0.74
Risk score	-0.64 (-1.28 to 0.01)	0.052

Models were adjusted for sex. AS: aortic stenosis; CI: confidence interval; OR: odds ratio.

eTable 3: Interaction of *LPA* variants with clinical risk factors, for associations with AS.

Risk Factor	n	Interaction Term with <i>LPA</i> Variant					
		rs10455872		rs3798220		Risk Score	
		OR (95% CI)	p Value	OR (95% CI)	p Value	OR (95% CI)	p Value
Dyslipidemia	44,703	0.91 (0.73-1.13)	0.40	0.94 (0.59-1.50)	0.80	0.92 (0.75-1.12)	0.39
Smoking	42,353	1.12 (0.93-1.36)	0.23	1.10 (0.75-1.60)	0.64	1.12 (0.95-1.33)	0.18
Diabetes mellitus	44,703	0.92 (0.71-1.18)	0.50	0.86 (0.51-1.46)	0.58	0.90 (0.72-1.14)	0.38
Hypertension	44,703	0.96 (0.80-1.15)	0.64	0.72 (0.50-1.04)	0.077	0.90 (0.76-1.06)	0.22

The reference groups for dyslipidemia, smoking, diabetes mellitus, and hypertension were individuals without dyslipidemia, non-smokers, individuals without diabetes mellitus, and individuals without hypertension, respectively. Models were adjusted for age, age², and sex. AS: aortic stenosis; CI: confidence interval; OR: odds ratio.