

Supplementary Material 4																	
Study	PMID	Publication year	Country or Region	Study population	Study design	Sample size	Median	Female	Median	Diagnosis of CAVD	The severity of CAVD	Detection of Lp(a)	Lp (a)	OR (95%CI)	NOS	Operation	Other factors related to CAVD
						(n)	age (y)	(%)	follow-up (y)				(mg/dl)				
Glader et al.	12573277	2003	Sweden	Sweden	CCS	202	60	40.6	NA	AVR	ND	ELISA	>30 >50	1.7 (0.8-3.9) 3.4 (1.1-11.2)	7	aortic valve replacement	high plasma leptin, tissue plasminogen activator
Vongpromek et al.	25487646	2015	The Netherlands	asymptomatic statin-treated patients with heterozygous familial hypercholesterolaemia	CS	129	51	37.2	7	CT (calcification scores) calcification scores=0 (n=79) 0<calcification scores≤100 (n=38) 100<calcification scores≤400 (n=9)	IT	>30 >50	1.8 (0.88-3.70) 2.57 (1.20-5.52)	6	ND	age, body mass index, blood pressure, duration of statin use, cholesterol-year score	
Kamstrup et al.	24161338	2014	Denmark	general population	CS	77680	58	56	20	ICD-8 [■] ICD-10 [△]	ND	IT	>90	4.95 (2.10-7.10)	8	ND	/
Nsaibia et al.	27237700	2016	Canada	patients with coronary artery disease	CCS	300	71	35	NA	NA	ND	IT	>50	2.06 (1.11-3.82)	7	ND	autotaxin mass, autotaxin activity, oxidized phospholipids on apolipoprotein B-100
Makshood et al.	33002750	2020	USA	South Asians, Whites, Hispanics, Chinese Americans, and Blacks	CS	695	59.3	57	5	CT	ND	IT	>30 >50	1.45 (0.77-2.74) 1.55 (0.71-3.37)	8	ND	/
Afshar et al.	27765771	2016	Denmark	Denmark	CS	29016	58	56	5	ICD-8 [■] ICD-10 [△]	ND	IT	>50	1.95 (1.94-1.97)	7	ND	/
Cao et al.	26941019	2016	USA	Blacks, Caucasians, Hispanics, and Chinese Americans	CS	4678	61.5	53.7	NA	CT	aortic valve calcification score=0 0<aortic valve calcification scores≤100 aortic valve calcification score>100	IT	>30 >50	1.38 (1.18-1.62) 1.44 (1.21-1.72)	6	ND	/
Zheng et al.	31407609	2019	The Netherlands	European Prospective Investigation Into Cancer in Norfolk Prospective Population	CS	17745	59.2	55.1	19.8	ICD-10 [▲]	ND	IT	>50	1.70 (1.33-2.19)	5	ND	/
Wilkinson et al.	28068801	2017	USA	USA	CCS	166	75	47	NA	UCG	ND	IIA	>30	0.93 (0.78-1.15)	7	ND	/
Cardoso-Saldaña et al.	31188921	2019	México	Mexican-Mestizos population	CCS	1265	53.3	53	NA	CT	ND	IT	>30	4.01 (2.30-6.90)	5	ND	/
Obisesan et al.	35656990	2022	USA	Whites, and Blacks	CCS	2083	59.2	62.2	NA	CT	ND	EP	>50	1.82 (1.34-2.47)	9	ND	/
Burdeynaya et al.	36975592	2023	Russia	Russia	CCS	250	74	71	NA	UCG	ND	ELISA	>30	3.4 (1.4-8.0)	5	ND	IgM autoAbs to oxidized Lp(a)

CAVD, calcific aortic valve disease; Lp(a), lipoprotein(a); NOS, Newcastle-Ottawa Scale; CCS, case-control study; CS, cohort study; NA, information not available; ND, not described; AVR, aortic valve replacement; CT, computed tomography; ICD, international classification of diseases; UCG, ultrasonic cardiogram; ELISA, enzyme linkedimmuno sorbent assay; IT, immunoturbidimetry; IIA, isoform-independent assay; EP, enzymatic procedures.

ICD-8[■], codes 424.10, 424.12, 424.18, 424.19; ICD-10[△], codes I35.0 and I35.2; ICD-10[▲], codes I35.0