

Supplementary Table 1. Clinical characteristics of Caucasians and Africans Americans

undergoing coronary angiography.

Characteristics	Caucasians (n=336)	African Americans (n=224)	P-value
Men/Women	217/119	126/98	NS
Hypertension (%)	203(60%)	165(73%)	0.002
Postmenopausal (%)	92(79%)	65(66%)	0.032
Smoking (%)	77(23%)	107(48%)	<0.001
Alcohol (%)	145(43%)	61(27%)	<0.001
Anthropometric			
Age (yrs)	56.8±10.3	54.8±9.2	0.025
BMI (kg/m ²)	29.7±6.0	28.6±6.1	0.043
Waist (cm)	104.9±17.3	96.2±16.4	<0.001
Systolic blood pressure (mm Hg)	125±18	129±19	NS
Diastolic blood pressure (mm Hg)	75±10	78±13	0.004
Metabolic			
Total cholesterol (mg/dl)	197±41	198±45	NS
LDL cholesterol (mg/dl)	122±35	126±42	NS
HDL cholesterol (mg/dl)	41±12	49±17	<0.001
Triglyceride (mg/dl)	153 (114-222)	106 (80-144)	<0.001
Glucose (mg/dl)	132±67	119±52	0.012
Insulin (μU/ml)	15.1 (9.2-26.0)	14.1 (8.9-21.7)	0.041
HOMA-IR	2.0 (1.3-3.5)	1.9 (1.2-2.9)	0.011
ApoA-I (mg/dl)	122±23	130±28	<0.001
ApoB (mg/dl)	136±36	134±40	NS
Lp-PLA ₂ mass (ng/mL)	288 (239-339)	210 (180-243)	<0.001
Lp-PLA ₂ activity (nmol/min/mL)	171 (146-201)	137 (109-162)	<0.001
Lp-PLA ₂ index (nmol/min/ng)	0.61±0.17	0.64±0.19	NS
Composite score	12.9 (1.7-27.1)	8.6 (1.5-25.1)	NS

NS, not significant. Data are means ± SD or for non-normally distributed variables as median (interquartile range). Group means were compared using *t*-test. Values for triglyceride, insulin, Lp-PLA₂ and composite score, were logarithmically transformed before analyses.

1 **Supplementary Table 2.** Epidemiological and clinical studies of the association between Lp-PLA₂ mass and activity and CVD.

Investigators (study)	Year	CV end point	Population	Ethnicity	Lp-PLA ₂ assay	No. of patients	Age criteria (y)	Risk (95% CI)
Packard et al, (2) (WOSCOPS)	2000	Coronary events	Men with hypercholesterolemia	Caucasians	Mass	1740	45-70	RR 1.18 (1.05-1.33)
Blake et al, (6) (WHS)	2001	Coronary events	Healthy women	Caucasians	Mass	246	45-70	RR 1.17 (0.45-3.05)
Blankenberg et al, (8) (AtheroGene)	2003	ACS and angina	Subjects with CAD	Caucasians	Activity	973	≥40	OR 1.80 (1.01-3.20)
Ballantyne et al, (5) (ARIC)	2004	Coronary events	Healthy subjects	Caucasians, African Americans	Mass	1348	45-64	HR 1.15 (0.81-1.63)
Koenig et al, (4) (MONICA)	2004	Coronary events	Men with moderate hypercholesterolemia	Caucasians	Mass	934	45-64	HR 1.21 (1.01-1.45)
Oei et al, (28) (Rotterdam Study)	2005	Coronary events	Healthy subjects	Caucasians	Activity	2128	≥55	HR 1.97 (1.28-3.02)
Iribarren et al, (27) (CARDIA study)	2005	Calcified coronary plaque	Young adults	Caucasians, African Americans	Mass and Activity	532	33-45	OR 1.28 (1.03-1.60)
Koenig et al, (23) (KAROLA study)	2006	Recurrent CV	Post ACS or revascularization	Caucasians	Mass and Activity	1051	30-70	HR 2.09 (1.10-3.96)
Winkler et al, (29) (LURIC study)	2007	Severe CAD	Patients undergoing coronary angiography	Caucasians	Activity	3232	43-76	HR 2.03 (1.35-3.05)
Furberg et al, (30) (CHS)	2008	MI	Elderly subjects	Caucasians, African Americans	Activity	5531	≥65	OR 1.12 (1.01-1.24)
Tsimikas et al, (31) (Bruneck Study)	2009	Incident CVD	Healthy subjects	Caucasians	Activity	765	45-84	HR 2.2 (1.1-4.8)

2 RR, relative risk; HR, hazard ratio; OR, odds ratio; CAD, coronary artery disease; ACS, acute coronary syndrome; MI, myocardial infarction;