

**Electronic supplementary material**

**ESM Table 1** Cox proportional hazards analysis for the association between both Lp-PLA2 mass and activity, and incident CVD outcomes, stratified by type 2 diabetes status

Variable per outcome	No diabetes				Diabetes			
	Lp-PLA <sub>2</sub> mass		Lp-PLA <sub>2</sub> activity		Lp-PLA <sub>2</sub> mass		Lp-PLA <sub>2</sub> activity	
	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>
<b>Fatal CHD</b>								
Events ( <i>n</i> )	271	107	271	107	84	34	82	36
Person-years	34807	10786	34753	10841	4357	1347	4011	1694
Adjusted HR <sup>b</sup>	1.0	1.17 (0.93–1.96)	1.0	1.16 (0.92–1.46)	1.0	1.36 (0.90–2.06)	1.0	1.09 (0.73–1.63)
Multivariable HR <sup>c</sup>	1.0	1.07 (0.84–1.37)	1.0	1.16 (0.90–1.50)	1.0	1.37 (0.87–2.17)	1.0	1.08 (0.67–1.72)
<b>Fatal MI</b>								
Events ( <i>n</i> )	39	12	39	12	12	3	11	4
Person-years	35230	10974	35184	11019	4524	1431	4162	1792
Adjusted HR <sup>b</sup>	1.0	0.89 (0.46–1.70)	1.0	0.88 (0.45–1.71)	1.0	0.77 (0.21–2.81)	1.0	0.89 (0.28–2.86)
Multivariable HR <sup>c</sup>	1.0	0.73 (0.36–1.47)	1.0	0.74 (0.35–1.53)	1.0	0.56 (0.13–2.50)	1.0	0.68 (0.16–2.93)
<b>Nonfatal MI</b>								
Events ( <i>n</i> )	284	130	285	129	67	28	68	27
Person-years	33916	10335	33908	10343	4280	1295	3918	1657
Adjusted HR <sup>b</sup>	1.0	1.44 (1.17–1.78)	1.0	1.35 (1.09–1.67)	1.0	1.32 (0.84–2.08)	1.0	0.90 (0.57–1.41)
Multivariable HR <sup>c</sup>	1.0	1.48 (1.19–1.85)	1.0	1.28 (1.01–1.62)	1.0	1.49 (0.88–2.54)	1.0	1.03 (0.60–1.77)
<b>CHF</b>								
Events ( <i>n</i> )	602	224	610	216	141	54	142	53
Person-years	33135	10224	33052	10308	3986	1208	3638	1556
Adjusted HR <sup>b</sup>	1.0	1.16 (0.99–1.35)	1.0	1.11 (0.95–1.31)	1.0	1.36 (0.99–1.89)	1.0	0.89 (0.65–1.23)
Multivariable HR <sup>c</sup>	1.0	1.16 (0.98–1.37)	1.0	1.11 (0.93–1.32)	1.0	1.32 (0.91–1.91)	1.0	0.96 (0.65–1.41)

Variable per outcome	No diabetes				Diabetes			
	Lp-PLA <sub>2</sub> mass		Lp-PLA <sub>2</sub> activity		Lp-PLA <sub>2</sub> mass		Lp-PLA <sub>2</sub> activity	
	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>	≤75th <sup>a</sup>	>75th <sup>a</sup>
CVD outcome <sup>d</sup>								
Events ( <i>n</i> )	902	337	904	335	195	70	192	73
Person-years	30785	9234	30753	9267	3587	1046	3287	1346
Adjusted HR <sup>b</sup>	1.0	1.20 (1.06– 1.36)	1.0	1.18 (1.04– 1.34)	1.0	1.24 (0.93– 1.65)	1.0	0.94 (0.72– 1.24)
Multivariable HR <sup>c</sup>	1.0	1.19 (1.04– 1.37)	1.0	1.12 (0.97– 1.29)	1.0	1.24 (0.90– 1.71)	1.0	0.95 (0.69– 1.32)

<sup>a</sup>Percentiles

<sup>b</sup>HR (95% CI), adjusted for age, sex and race

<sup>c</sup>HR (95% CI) adjusted for age, sex, race (black, non-black), BMI, smoking status (former, never, current), smoking history (lifetime pack-years), alcohol use (never, former, <7 drinks/week, >7 drinks/week), HDL, LDL, use of statins, C-reactive protein, field centre, education (lower than high school, high school or General Education Diploma (GED), higher than high school), physical activity (energy expenditure), creatinine and hypertension

<sup>d</sup>Any of the above (e.g. fatal CHD, fatal MI, non-fatal MI, CHF)

