



Supplemental Table 1. The relationship between Lp(a) and the severity of AMI

Variables	single-vessel (n=229)	two-vessel (n=189)	three-vessel (n=140)	<i>P</i>
Age, year	61.07± 10.01	63.86± 10.81	64.38± 9.31	0.002
TC, mmol/l	4.26± 0.73	4.32± 0.74	4.25± 0.77	0.608
TG, mmol/l	1.38 (1.01-2.03)	1.41 (0.98-2.06)	1.42 (1.01-1.89)	0.908
HDL-C, mmol/l	1.09± 0.31	1.06± 0.29	1.04± 0.29	0.313
LDL-C, mmol/l	2.51± 0.54	2.57± 0.48	2.52± 0.56	0.439
Lp(a), mg/l	133 (64.5-255)	128 (79.0-230.5)	148 (80.3-315.8)	0.173

TC, total cholesterol; TG, triglyceride; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol

Supplemental Table 2. Unadjusted and adjusted multivariable logistic regression of associations of Lp(a) with AMI

	Q1		Q2		Q3		Q4	
	OR (95%CI)	<i>P</i>	OR (95%CI)	<i>P</i>	OR (95%CI)	<i>P</i>	OR (95%CI)	<i>P</i>
Total								
Model 1	1.000 (Ref.)	-	1.253 (0.931-1.685)	0.136	1.729 (1.305-2.291)	<0.001	1.816 (1.373-2.402)	<0.001
Model 2	1.000 (Ref.)	-	1.290(0.944-1.763)	0.110	1.756(1.303-2.366)	<0.001	1.863(1.385-2.506)	<0.001
Model 3	1.000 (Ref.)	-	1.213(0.884-1.665)	0.231	1.666(1.230-2.257)	<0.001	1.769(1.305-2.398)	<0.001
Gender								
Male								
Model 1	1.000 (Ref.)	-	1.235(0.874-1.746)	0.231	1.734(1.247-2.410)	0.001	1.841(1.324-2.558)	<0.001
Model 2	1.000 (Ref.)	-	1.315(0.920-1.879)	0.132	1.753(1.248-2.463)	0.001	1.853(1.320-2.603)	<0.001
Model 3	1.000 (Ref.)	-	1.251(0.872-1.795)	0.224	1.673(1.184-2.364)	0.004	1.779(1.256-2.520)	0.001
Female								
Model 1	1.000 (Ref.)	-	1.226(0.650-2.313)	0.528	1.593(0.872-2.910)	0.130	1.752(0.971-3.160)	0.062
Model 2	1.000 (Ref.)	-	1.130(0.591-2.162)	0.711	1.773(0.955-3.293)	0.070	1.874 (1.022-3.437)	0.042
Model 3	1.000 (Ref.)	-	1.019(0.526-1.973)	0.956	1.666(0.888-3.125)	0.112	1.683(0.903-3.137)	0.101
Age								
Early-onset								
Model 1	1.000 (Ref.)	-	1.131(0.713-1.795)	0.601	1.214(0.776-1.898)	0.396	1.232(0.789-1.923)	0.359
Model 2	1.000 (Ref.)	-	1.115(0.685-1.816)	0.661	1.157(0.718-1.865)	0.550	1.311(0.817-2.104)	0.262
Model 3	1.000 (Ref.)	-	1.054(0.644-1.726)	0.835	1.049(0.645-1.706)	0.847	1.238(0.762-2.013)	0.388
Late-onset								
Model 1	1.000 (Ref.)	-	1.334(0.904-1.969)	0.146	2.126(1.472-3.072)	<0.001	2.271(1.575-3.273)	<0.001
Model 2	1.000 (Ref.)	-	1.453(0.966-2.184)	0.073	2.290(1.552-3.378)	<0.001	2.371(1.612-3.486)	<0.001
Model 3	1.000 (Ref.)	-	1.370(0.906-2.073)	0.136	2.249(1.511-3.348)	<0.001	2.266(1.526-3.365)	<0.001

AMI, acute myocardial infarction; Q, quartile; OR, odds ratio; CI, confidence interval.

Model 1, crude model without adjustment for any factors; Model 2, adjustment for age, gender, smoking, EH, DM;

Model, adjustment for factors in model 2 plus TC, HDL-C, LDL-C and ApoA.

Bold values indicate statistical significance.

Supplemental Table 3. Unadjusted and adjusted multivariable logistic regression of associations of Lp(a) with AMI in EH and DM subgroups

	Q1		Q2		Q3		Q4	
	OR (95%CI)	P	OR (95%CI)	P	OR (95%CI)	P	OR (95%CI)	P
EH								
N								
Model 1	1.000 (Ref.)	-	1.774(1.078-2.919)	0.024	1.931(1.189-3.136)	0.008	1.911(1.166-3.134)	0.010
Model 2	1.000 (Ref.)	-	1.709(0.997-2.930)	0.051	1.936(1.140-3.290)	0.015	1.994(1.161-3.425)	0.012
Model 3	1.000 (Ref.)	-	1.717(0.993-2.969)	0.053	1.962(1.145-3.364)	0.014	2.118(1.214-3.697)	0.008
Y								
Model 1	1.000 (Ref.)	-	1.033(0.710-1.502)	0.866	1.692(1.193-2.400)	0.003	1.788(1.272-2.515)	0.001
Model 2	1.000 (Ref.)	-	1.086(0.736-1.602)	0.679	1.698(1.180-2.444)	0.004	1.817(1.273-2.594)	0.001
Model 3	1.000 (Ref.)	-	0.999(0.673-1.483)	0.996	1.571(1.084-2.279)	0.017	1.653(1.147-2.381)	0.007
DM								
N								
Model 1	1.000 (Ref.)	-	1.389(0.987-1.955)	0.060	1.872(1.353-2.590)	<0.001	1.961(1.419-2.710)	<0.001
Model 2	1.000 (Ref.)	-	1.311(0.919-1.870)	0.135	1.814(1.293-2.546)	0.001	1.948(1.390-2.728)	<0.001
Model 3	1.000 (Ref.)	-	1.220(0.852-1.748)	0.278	1.698(1.204-2.394)	0.003	1.811(1.283-2.555)	0.001
Y								
Model 1	1.000 (Ref.)	-	0.996(0.531-1.869)	0.990	1.640(0.895-3.004)	0.109	1.681(0.927-3.041)	0.087
Model 2	1.000 (Ref.)	-	1.251(0.638-2.453)	0.515	1.599(0.836-3.058)	0.156	1.660(0.876-3.146)	0.120
Model 3	1.000 (Ref.)	-	1.244(0.623-2.486)	0.536	1.730(0.879-3.405)	0.112	1.753(0.902-3.406)	0.098

EH, essential hypertension; DM, diabetes mellitus. N, no; Y, yes; OR, odds ratio; CI, confidence interval. Q, quartile;

Bold values indicate statistical significance.

Supplemental Table 4. Unadjusted and adjusted multivariable logistic regression of associations of Lp(a) with AMI in different cutoff values

	Cut-off 1		Cut-off 2	
	OR(95%CI)	<i>P</i>	OR(95%CI)	<i>P</i>
Total				
Model 1	1.421(1.172-1.724)	<0.001	1.446(1.143-1.830)	0.002
Model 2	1.413(1.151-1.735)	0.001	1.465(1.139-1.885)	0.003
Model 3	1.418(1.150-1.748)	0.001	1.521(1.179-1.963)	0.001
Gender				
Male				
Model 1	1.394(1.110-1.751)	0.004	1.375(1.035-1.826)	0.028
Model 2	1.361(1.076-1.721)	0.010	1.341(1.001-1.798)	0.049
Model 3	1.370(1.078-1.740)	0.010	1.392(1.034-1.872)	0.029
Female				
Model 1	1.473(0.978-2.220)	0.064	1.857(1.166-2.958)	0.009
Model 2	1.643(1.076-2.510)	0.022	1.823(1.120-2.967)	0.016
Model 3	1.618(1.049-2.393)	0.029	1.874(1.142-3.076)	0.013
Age				
Early-onset				
Model 1	1.143(0.823-1.586)	0.426	1.186(0.794-1.771)	0.406
Model 2	1.149(0.810-1.630)	0.435	1.224(0.797-1.881)	0.356
Model 3	1.137(0.797-1.623)	0.479	1.251(0.807-1.940)	0.317
Late-onset				
Model 1	1.594(1.252-2.029)	<0.001	1.631(1.215-2.190)	0.001
Model 2	1.586(1.230-2.046)	<0.001	1.623(1.184-2.223)	0.003
Model 3	1.598(1.232-2.073)	<0.001	1.694(1.233-2.327)	0.001

AMI, acute myocardial infarction; OR, odds ratio; CI, confidence interval.

Bold values indicate statistical significance.

Model 1, crude model without adjustment any factors; Model 2, adjustment for age, gender, smoking, EH, DM;

Model, adjustment for factors in Model 2 plus TC, HDL-C, LDL-C and ApoA.