

SUPPLEMENTAL MATERIAL

Table S1. Unadjusted and adjusted relative hazard (RH) of SCD by rs16847548 and rs12567209 genotypes in blacks from ARIC and CHS

	rs16847548			rs12567209		
	TT	TC	CC	GG	AG	AA
No SCD	N=2,879 66.1%	N=1,331 30.5%	N=148 3.4%	N=3,755 86.4%	N=569 13.1%	N=23 0.5%
SCD	N=99 62.3%	N=57 35.8%	N=3 1.9%	N=134 82.2%	N=27 16.6%	N=2 1.2%
RH (95% CI)	1.00 (ref.)	1.24 (0.89-1.72)	0.61 (0.19-1.93)	1.00 (ref.)	1.28 (0.85-1.94)	2.22 (0.55-8.98)
Model 1	1.00 (ref)	1.07 (0.81-1.41)		1.00 (ref.)	1.40 (0.97-2.03)	
Model 2	P value 1.00	0.64 1.12 (0.85, 1.49)		P value 1.00	0.07 1.49 (1.02, 2.17)	
Model 3	P value 1.00	0.41 1.15 (0.86-1.52)		P value 1.00	0.04 1.56 (1.07, 2.27)	
Model 4	P value 1.00	0.34 1.28 (0.92-1.76)		P value 1.00	0.02 1.56 (1.00, 2.42)	
	P value	0.14		P value	0.05	

P Value obtained from regression model assuming additive genetic model

Model 1 included age, sex, and study

Model 2 included model 1 + both rs16847548 and rs12567209

Model 3 = model 2 + heart rate (continuous) and QT-interval (quintiles)

Model 4 = model 3+ current marital and smoking status, education, BMI, total cholesterol and fibrinogen levels, hypertension, diabetes, and history of MI, heart rate (continuous) and QT-interval (quintiles)

Table S2. Relative hazards of SCD associated with rs16847548 in whites, stratified by established cardiovascular risk factors at baseline

	N	HR	95% CI	P Value
ARIC	10,447	1.34	(1.04-1.73)	0.023
CHS	4,176	1.29	(1.02-1.64)	0.033
No History of MI	13,801	1.39	(1.13-1.70)	0.002
History of MI	792	1.06	(0.76-1.48)	0.742
Women*	7,914	1.53	(1.13-2.07)	0.006
Men	6,709	1.23	(1.00-1.52)	0.053
Age at last follow up <70**	6,186	1.45	(1.09-1.93)	0.010
Age at last follow up ≥70	8,437	1.27	(1.03-1.58)	0.029
No diabetes	13,083	1.39	(1.14-1.69)	0.001
Diabetes	1,508	1.08	(0.75-1.55)	0.672
No Hypertension	9,436	1.29	(0.99-1.68)	0.059
Hypertension	5,134	1.39	(1.10-1.74)	0.005
No family history of CVD	6,674	1.26	(0.95-1.67)	0.104
Family history of CVD	7,570	1.40	(1.11-1.77)	0.004
BMI < 30 kg/m ²	11,496	1.28	(1.05-1.57)	0.017
BMI ≥ 30 kg/m ²	3,070	1.46	(1.05-2.03)	0.024
HDL < 40 mg/dL	3,781	1.33	(1.02-1.74)	0.037
HDL ≥ 40 mg/dL	10,774	1.37	(1.09-1.72)	0.007
Not current smoker	9,803	1.29	(1.02-1.62)	0.032
Current smoker	4,770	1.38	(1.06-1.84)	0.017
LDL < 130 mg/dL	6,671	1.28	(0.98-1.66)	0.070
LDL ≥ 130 mg/dL	7,914	1.38	(1.09-1.74)	0.006

No tests of interaction between genotype, cardiovascular risk factor, and SCD were statistically significant ($P < 0.05$). *P* Value is stratum-specific *P* Value assuming additive genetic model for rs16847548

*Model adjusted for only age

**Model adjusted for only sex

Table S3. Relative hazards of SCD associated with rs12567209 in whites, stratified by established cardiovascular risk factors at baseline

	N	HR	95% CI	P Value
ARIC	10,377	0.76	(0.47 – 1.24)	0.27
CHS	4,151	0.42	(0.23 – 0.75)	0.003
No History of MI	13,696	0.49	(0.30 – 0.78)	0.003
History of MI	802	0.87	(0.48 – 1.60)	0.66
Women*	7,850	0.54	(0.27 – 1.06)	0.07
Men	6,678	0.58	(0.37 – 0.92)	0.02
Age at last follow up <70**	6,130	0.93	(0.56 – 1.54)	0.79
Age at last follow up ≥70	8,437	0.39	(0.22 – 0.68)	0.001
No diabetes	13,003	0.62	(0.41 – 0.93)	0.02
Diabetes	1,493	0.43	(0.18 – 1.05)	0.06
No Hypertension	9,373	0.79	(0.48 – 1.32)	0.37
Hypertension	5,100	0.42	(0.24 – 0.73)	0.002
No family history of CVD	6,652	0.49	(0.26 – 0.93)	0.03
Family history of CVD	7,538	0.57	(0.35 – 0.95)	0.03
BMI < 30 kg/m ²	11,455	0.42	(0.25 – 0.69)	0.001
BMI ≥ 30 kg/m ²	3,056	1.02	(0.58 – 1.80)	0.93
HDL < 40 mg/dL	3,774	0.66	(0.38 – 1.13)	0.13
HDL ≥ 40 mg/dL	10,723	0.51	(0.30 – 0.86)	0.01
Not current smoker	9,775	0.41	(0.23 – 0.73)	0.003
Current smoker	4,743	0.79	(0.48 – 1.29)	0.34
LDL < 130 mg/dL	6,653	0.62	(0.34 – 1.05)	0.08
LDL ≥ 130 mg/dL	7,875	0.55	(0.33 – 0.91)	0.02

No tests of interaction between genotype, cardiovascular risk factor, and SCD were statistically significant ($P < 0.05$) except for p value of 0.02 for age at last follow up and for obesity. *P* Value is stratum-specific *P* Value assuming additive genetic model for rs12567209

*Model adjusted for only age

**Model adjusted for only sex