

Table 1 (Supplemental material). Association between the APOA2 -265T>C polymorphism and plasma APOA2 or APOA1 concentrations in the whole population and stratified by gender and by obesity in the Framingham Study

		TOTAL		MEN		WOMEN		NON-OBESE		OBESE	
APOA2 -265T>C		Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
APOA2 (mg/dL)	TT+TC	36.5	(7.1)	35.1	(6.1)	38.2	(7.4)	36.9	(6.9)	35.3	(6.9)
	CC	34.8	(6.1)	32.8	(5.4)	36.5	(6.2)	35.4	(6.1)	32.9	(5.7)
		P<0.001		P=0.001		P=0.036		P=0.007		P=0.016	
		P*=0.001		P*=0.003		P*=0.026		P*=0.007		P*=0.031	
APOA1 (mg/dL)	TT+TC	152.5	(25.8)	142.2	(20.9)	162.9	(25.6)	155.4	(25.8)	144.4	(24.1)
	CC	153.4	(26.3)	141.3	(21.1)	163.9	(26.1)	156.6	(26.7)	144.1	(22.6)
		P=0.626		P=0.704		P=0.675		P=0.567		P=0.901	
		P*=0.778		P*=0.810		P*=0.730		P*=0.817		P*=0.774	

P: Unadjusted P values for comparison of means between APOA2 -265T>C genotypes

P*: P values adjusted for gender, age, BMI, tobacco smoking, alcohol consumption, lipid medication and diabetes

Biochemical determinations for plasma APOA2 concentrations were available for 1217 individuals

Table 2 (Supplemental material). Association between the APOA2 -265T>C polymorphism and dietary intake in men and women depending on the obesity status in the Framingham Study

	Obese* (n=368)				P ¹	P ²	P ³	Non-obese* (n=1086)				P ¹	P ²	P ³
	TT+CT (n=307)		CC (n=61)					TT+CT (n=910)		CC (n=176)				
	Mean	SD	Mean	SD				Mean	SD	Mean	SD			
Age (years)	55.7	(8.7)	55.8	(9.7)	0.942			55.4	(9.5)	55.7	(9.8)	0.684		
BMI (Kg/m ²)	34	(3.9)	34.1	(4.1)	0.958			25.4	(2.7)	25.3	(2.7)	0.595		
Physical activity ⁺	36.6	(7.6)	36.4	(6.2)	0.902	0.879	-	37.2	(7.2)	36.7	(6.9)	0.399	0.469	-
Total energy (Kcal/d)	1832.1	(629.1)	2097.3	(735.1)	0.008	0.004	0.004	1838.2	(605.4)	1891.5	(614.3)	0.337	0.307	0.309
Total fat (g/d)	63.1	(26.8)	71.2	(28.2)	0.025	0.022	0.022	59.6	(24.7)	60.1	(24.1)	0.881	0.633	0.627
SFA (g/d)	22.3	(9.9)	25.2	(11.2)	0.042	0.040	0.040	20.9	(9.3)	21.1	(8.9)	0.792	0.551	0.543
MUFA (g/d)	24.2	(10.6)	27.1	(11.1)	0.029	0.027	0.028	22.6	(9.8)	22.8	(9.6)	0.941	0.671	0.662
PUFA (g/d)	12.5	(5.8)	13.5	(5.7)	0.221	0.206	0.202	11.9	(5.3)	12.2	(5.7)	0.914	0.796	0.793
Protein (g/d)	71.1	(26.7)	80.2	(29.7)	0.017	0.012	0.013	68.7	(25.5)	69.4	(26.1)	0.727	0.643	0.637
Carbohydrate (g/d)	224.9	(85.5)	263.6	(103.4)	0.005	0.006	0.005	237.6	(90.1)	248.3	(93.7)	0.252	0.153	0.156
Fructose (g/d)	22.8	(14.2)	30.1	(21.9)	0.010	0.009	0.009	25.2	(15.3)	26.3	(14.7)	0.332	0.233	0.236
Cholesterol (mg/d)	231.9	(101.8)	262.2	(107.2)	0.027	0.022	0.022	219.1	(99.4)	219.3	(97.2)	0.952	0.773	0.763
Dietary fiber (g/d)	18.4	(7.7)	21.9	(9.7)	0.055	0.049	0.046	19.2	(8.4)	20.3	(10.)	0.392	0.406	0.411
PUFA n-3 (g/d)	1.43	(.7)	1.66	(1.1)	0.074	0.054	0.055	1.3	(.6)	1.4	(.6)	0.885	0.878	0.876
PUFA n-6 (g/d)	10.9	(5.9)	13.1	(10.7)	0.146	0.126	0.128	10.3	(4.8)	10.7	(5.5)	0.767	0.647	0.645
Animal fat (g/d)	35.1	(16.5)	40.1	(17.7)	0.011	0.008	0.009	32.4	(15.4)	32.3	(14.8)	0.998	0.766	0.725
Vegetal fat (g/d)	29.6	(14.8)	32.1	(16.1)	0.334	0.366	0.355	28.6	(14.3)	29.4	(14.9)	0.783	0.606	0.605
Alcohol (g/d) in total	11.5	(19.4)	12.2	(24.9)	0.662	0.789	0.799	10.9	(15.8)	11.1	(15.7)	0.892	0.205	0.206
Alcohol (g/d) in drinkers	15.9	(21.3)	18.2	(28.7)	0.556	0.498	0.467	14.6	(16.8)	14.7	(16.6)	0.988	0.675	0.671

P¹: Unadjusted P values

P²: Adjusted for sex, age, BMI, tobacco smoking, alcohol consumption, lipid medication and diabetes

P³: Adjusted for sex, age, BMI, tobacco smoking, alcohol consumption, lipid medication, diabetes and physical activity

*: No statistically significant differences in sex distribution were observed by the APOA2 polymorphism in obese (P=0.777) and non-obese (P=0.221)

+: Physical activity was estimated as a physical activity score as indicated in Methods