

S5 Table. Heritability (h²) values and effect of covariates (age, sex and their interaction) in the whole sample and stratified for case/control families.

	Overall (1052 subjects, 283 families)			AD families (229 subjects, 62 families)			Control families (823 subjects, 221 families)		
	h ² (SE) (%)	P values	Covariates (%)	h ² (SE) (%)	P values	Covariates (%)	h ² (SE) (%)	P values	Covariates (%)
BMI	44.1 (5.7)	9.E-15	53.7	52.1 (11.4)	6.E-06	33.5	40.8 (6.6)	2.E-10	57.9
Waist circumference	29.7 (9.9)	1.E-03	67.6	45.6 (17.8)	6.E-03	55.0	17.7 (11.9)	0.06	80.1
Hip circumference	42.2 (12.4)	4.E-04	0.2	78.9 (18.0)	1.E-04	60.6	22.4 (15.9)	0.08	0.0
PAD	15.8 (8.2)	2.E-02	24.4	Ne	-		22.5 (9.1)	5.E-03	24.4
PAS	18.1 (8.8)	2.E-02	30.1	5.3 (21.2)	0.40	28.5	20.4 (9.6)	1.E-02	30.9
Glucose	88.9 (3.7)	4.E-59	17.1	90.4 (7.8)	8.E-15	13.9	86.2 (4.4)	1.E-42	18.5
Insulin	22.1 (6.4)	1.E-04	2.6	26.9 (14.3)	3.E-02	0.2	18.9 (7.2)	3.E-03	6.4
HOMA	32.2 (6.8)	5.E-07	3.0	30.9 (15.8)	2.E-02	0.0	26.8 (7.7)	2.E-04	7.2
Total cholesterol	45.7 (6.1)	7.E-14	15.0	71.2 (10.8)	2.E-08	20.5	37.5 (7.1)	3.E-08	14.3
HDL	63.5 (4.6)	1.E-35	13.5	32.8 (13.5)	5.E-03	21.5	48.3 (6.1)	5.E-15	18.8
Non-HDL	55.2 (5.5)	3.E-21	12.7	68.6 (11.5)	4.E-07	8.7	48.7 (6.3)	2.E-14	14.9
Non-HDL/HDL ratio	66.2 (4.9)	2.E-31	22.3	47.4 (14.8)	1.E-03	10.7	55.0 (6.2)	1.E-16	29.4
LDL	58.9 (5.4)	6.E-25	8.4	74.6 (9.5)	2.E-10	8.8	52.5 (6.3)	2.E-16	8.8
Tryglicerides	58.4 (5.6)	3.E-22	27.3	28.7 (13.7)	1.E-02	5.9	45.0 (6.7)	4.E-11	28.2
ApoAI	67.0 (4.7)	2.E-35	8.1	51.4 (10.7)	2.E-06	12.5	66.4 (5.7)	3.E-25	8.3
ApoB	74.8 (4.8)	6.E-36	13.5	81.3 (9.9)	8.E-10	11.2	73.0 (5.4)	9.E-29	13.6
ApoAI/HDL ratio	72.2 (5.1)	3.E-33	13.5	57.8 (12.9)	2.E-05	12.2	64.7 (6.4)	1.E-19	19.3
ApoB/non-HDL ratio	83.0 (4.1)	1.E-51	0.0	77.3 (9.6)	4.E-10	0.2	84.5 (4.5)	1.E-42	0.7
ApoB/Apo-aI ratio	75.8 (4.8)	6.E-38	11.6	60.8 (11.5)	1.E-06	6.4	76.9 (5.3)	2.E-31	12.9
Adiponectin	16.8 (13.2)	0.10	15.5	7.6 (17.3)	0.33	7.2	43.8 (18.7)	2.E-02	22.0
CRP	23.4 (7.4)	5.E-04	8.4	20.7 (14.4)	0.07	0.0	25.2 (8.6)	1.E-03	14.8
MetSyn	65.5 (16.9)	8.E-05	1.82*	Ne	-		49.6 (147.2)	0.40	20.5*

*Kullback-Leibler R-squared for categorical variables