

SUPPLEMENTARY DATA

**Supplementary Table 1.** Baseline characteristics of samples in the CVDFACTS cohort study.

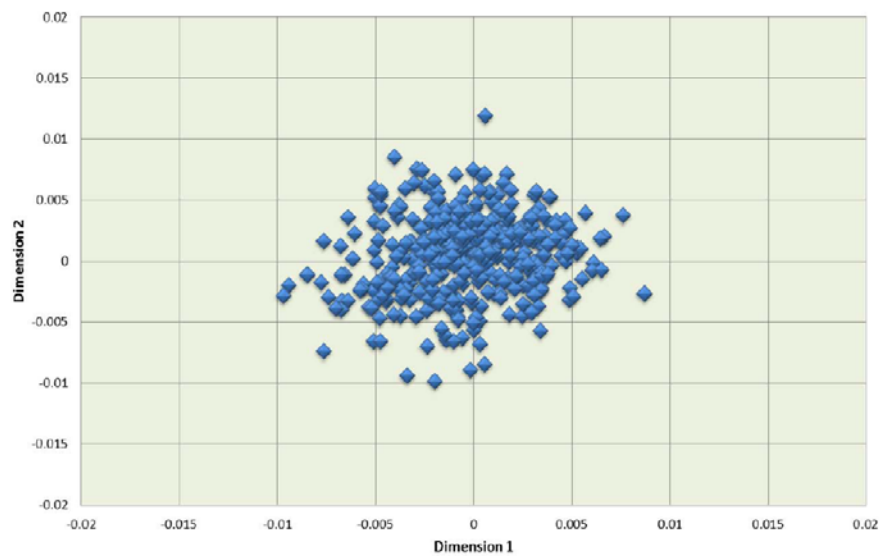
	Male (n = 1525)	Female (n = 1825)	P value <sup>†</sup>
Age, Year	51.52±12.54	49.17±11.99	<0.001
BMI, Kg/m <sup>2</sup>	24.02±3.07	24.49±3.44	<0.001
Waist circumference, cm	84.49±8.91	78±8.7	<0.001
Triglycerides, mg/dl	119.47±82.34	103.07±79.52	<0.001
Cholesterol, mg/dl	196.23±43.73	199.51±44.53	0.059
HDL-C, mg/dl	41.91±16.3	44.11±12.9	0.001
LDL-C, mg/dl	126.61±46.63	130.75±38.19	0.037
Systolic BP, mm/Hg	122.15±17.19	118.39±18.63	<0.001
Diastolic BP, mm/Hg	75.94±11.45	71.09±11.14	<0.001
Glucose, mg/dl	102.34±26.58	100.25±24.68	0.02
IMT, mm	0.51±0.14	0.5±0.15	0.002
Smoking, n (%)	594(38.9)	14(0.8)	<0.001
Hypertension, n (%)	171(11.3)	218(12)	0.511
DM, n (%)	41(2.7)	50(2.75)	0.929
MS, n (%)	327(21.5)	421(23.2)	0.262
Stroke, n (%)	42(2.8)	38(2.1)	0.204

Data are mean±SD; BMI, body mass index; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; IMT, intima medial thickness; DM, diabetes mellitus; MS, metabolic syndrome.

<sup>†</sup>Either *t*-test or chi-square was used to make comparisons between the male and female of CVDFACTS cohort study with a significance level set at  $p = 0.05$ .

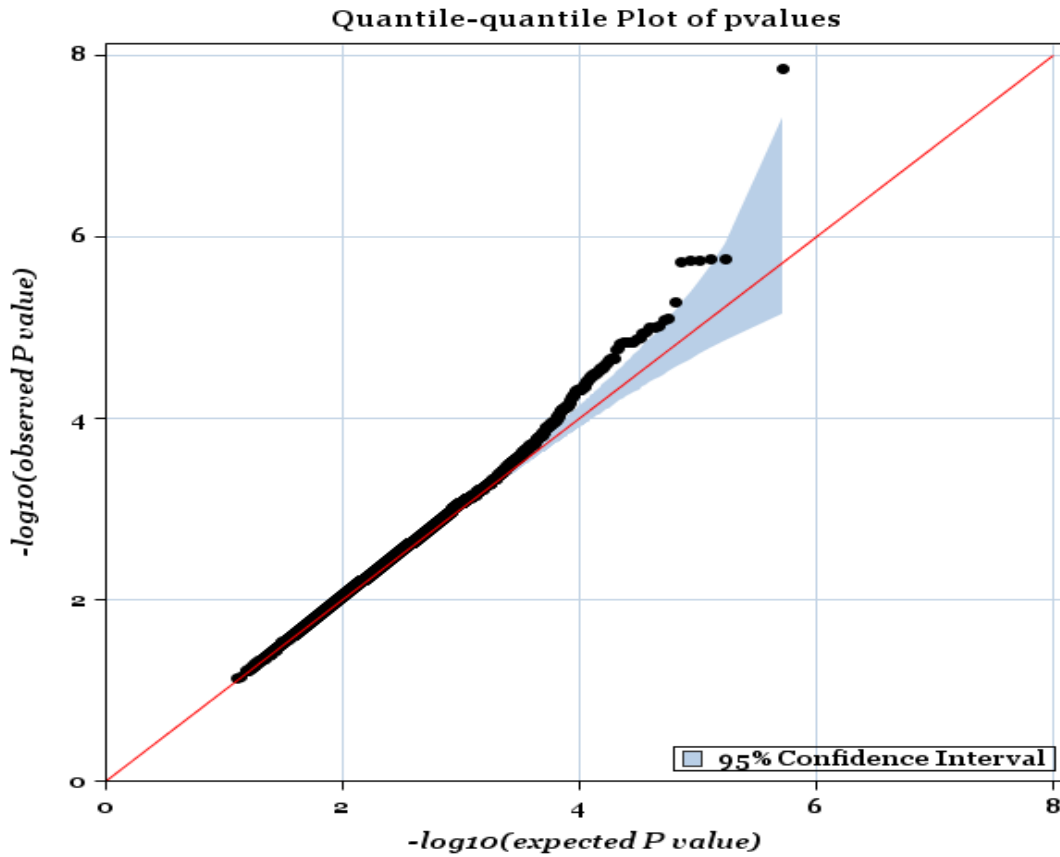
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**Supplementary Figure 1.** Multidimensional scaling (MDS) analysis plot. The MDS plot shows the first two principal components, estimated by PLINK, based on genotype data from 509,174 SNPs. No population stratification for YOH cases in the first stage was detected (Identify-by-state group-difference empirical p value = 0.99715 for T4: Case/case more similar).



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**Supplementary Figure 2.** Q–Q plot of genome-wide QTL mapping for adiponectin levels. Q–Q plots are shown for the GLM for associating adiponectin levels with genotype data, making adjustments for gender, age, BMI and smoking status in the first-stage. The light blue area represents the upper and lower boundaries of the 95% confidence interval. The observed genomic control inflation factor( $\lambda_{GC}$ ) was 0.9962.



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**Supplementary Figure 3.** Cluster plots for the 3 SNPs showing the strongest evidence of association with adiponectin levels.

