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Table S1. Pearson correlation coefficients among obesity-related phenotypes.

	BMI	WC	HC	WHR	WHRadjBMI	PBF	PBF of Arms	PBF of Legs	PBF of Trunk
BMI	1.000	0.812	0.823	0.391	−0.014	0.666	0.616	0.531	0.732
WC	0.812	1.000	0.823	0.713	0.361	0.458	0.383	0.307	0.546
HC	0.823	0.823	1.000	0.190	−0.179	0.542	0.493	0.410	0.610
WHR	0.391	0.713	0.190	1.000	0.849	0.132	0.065	0.034	0.200
WHRadjBMI	−0.014	0.361	−0.179	0.849	1.000	0.027	0.005	0.013	0.039
PBF	0.666	0.458	0.542	0.132	0.027	1.000	0.977	0.965	0.983
PBF of arms	0.616	0.383	0.493	0.065	0.005	0.977	1.000	0.966	0.937
PBF of legs	0.531	0.307	0.410	0.034	0.013	0.965	0.966	1.000	0.903
PBF of trunk	0.732	0.546	0.610	0.200	0.039	0.983	0.937	0.903	1.000

Abbreviations as in Table 2.

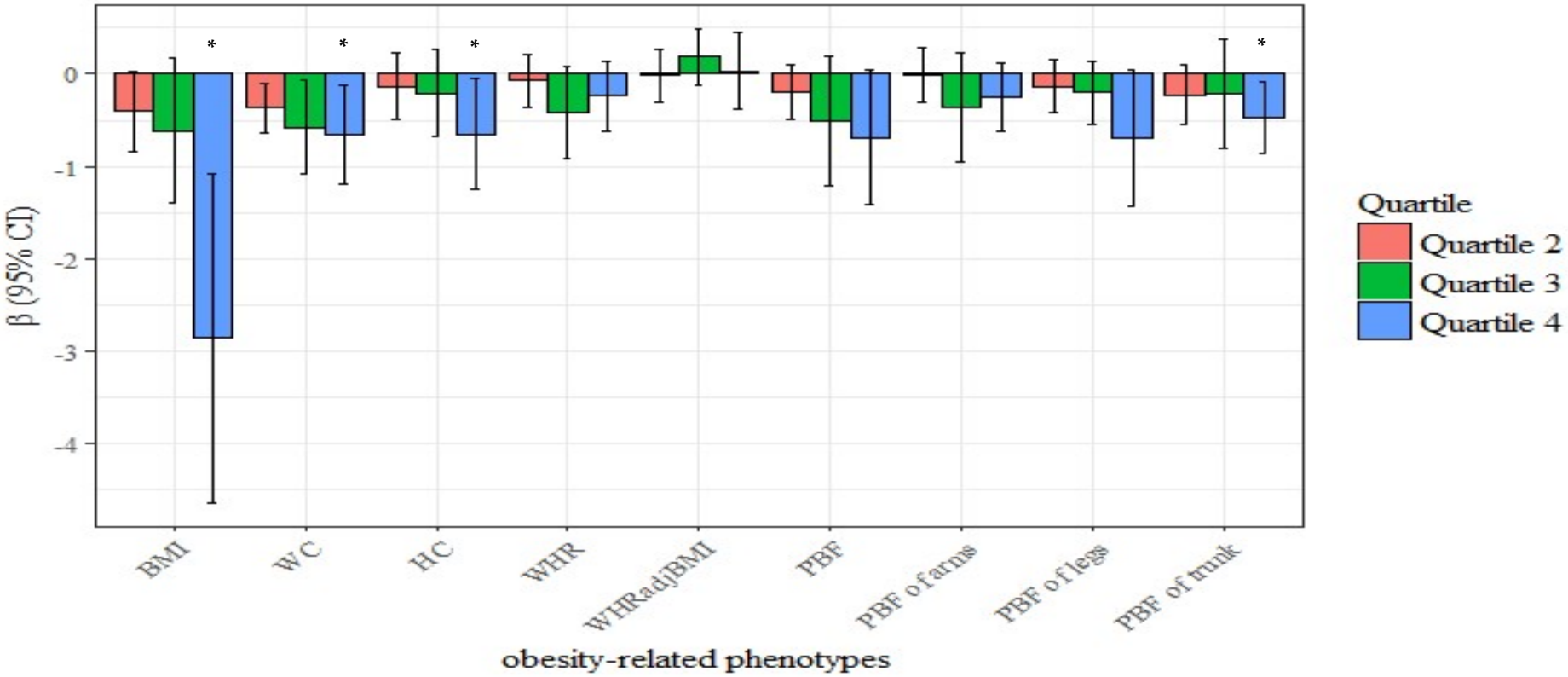

Figure S1. Association between rs2925979_T allele number and obesity-related phenotypes (stratified by quartiles of obesity-related phenotypes). Results of association analyses adjusted for age, hypertension, hyperlipidemia, smoking status, and alcohol drinking; *, $p < 0.05$; abbreviations as in Table 2.

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Table S2. Association between *CMIP* rs2925979_T allele numbers and obesity-related phenotypes among T2DM patients.

	Combined (n = 1582)		Male (n = 667)		Female (n = 915)		p-Value for Sex Interaction
	β (SE)	p-Value	β (SE)	p-Value	β (SE)	p-Value	
BMI	−0.026 (0.036)	0.482	0.023 (0.058)	0.695	−0.070 (0.046)	0.128	0.332
WC	0.010 (0.037)	0.790	0.081 (0.057)	0.155	−0.045 (0.047)	0.336	0.092
HC	−0.051 (0.037)	0.169	0.006 (0.059)	0.913	−0.109 (0.048)	0.022	0.088
WHR	0.109 (0.037)	0.003*	0.146 (0.057)	0.010	0.086 (0.047)	0.068	0.386
WHRadjBMI	0.121 (0.037)	0.001*	0.128 (0.056)	0.022	0.122 (0.049)	0.013	0.805
PBF	−0.023 (0.037)	0.533	0.051 (0.060)	0.392	−0.079 (0.048)	0.097	0.125
PBF of arms	−0.016 (0.037)	0.668	0.064 (0.059)	0.271	−0.073 (0.047)	0.122	0.103
PBF of legs	−0.008 (0.037)	0.837	0.066 (0.058)	0.256	−0.059 (0.047)	0.213	0.154
PBF of trunk	−0.032 (0.037)	0.380	0.046 (0.059)	0.436	−0.089 (0.047)	0.059	0.094

All obesity-related phenotypes were transferred by the inverse standard normal function; *, significant after Bonferroni correction ($p < 0.006$); abbreviations as in Table 2.

Table S3. Inclusion and exclusion criteria for participants.

(a) Inclusion criteria for T2DM group
1. With a history of T2DM or
2. With HbA1c ≥ 6.5%, or FBG (fasting blood glucose) ≥ 7.0 mmol/L, or random blood glucose ≥ 11.1 mmol/L
(b) Inclusion criteria for prediabetes group
1. Without any type of diabetes and
2. With 5.7% ≤ HbA1c < 6.5% or 5.6 mmol/L ≤ FBG < 7.0 mmol/L
(c) Inclusion criteria for normal group
1. Without any type of diabetes and
2. With HbA1c < 5.7% and FBG < 5.6 mmol/L
(d) Exclusion criteria for all participants
1.With a history of type 1 diabetes, gestational diabetes, or any other type of diabetes except T2DM
2. With an onset age of diabetes < 30 years old
3. Diagnosed with diabetic ketoacidosis on the early stage of diabetes
4. With serious diseases or diabetic complications, not able to coordinate with the study

T2DM, type 2 diabetes mellitus; HbA1c, hemoglobin a1c; FBG, fasting blood glucose.