

Supplementary

Table S1 Comparisons of clinical characteristics between males and females

Variables	Male (n=3,165)	Female (n=1,369)	P
Stroke (n)	29	8	0.25
CHD (n)	160	51	0.05
HBP (n)	1,031	221	<0.01
Age (y)	49.07±7.44	49.00±8.68	0.59
Height (cm)	173.16±5.78	161.36±5.30	<0.01
Weight (kg)	78.82±10.71	61.72±8.77	<0.01
BMI	26.25±3.15	23.71±3.21	0.14
WC (cm)	92.71±8.69	80.40±9.11	0.01
SBP (mmHg)	121.53±16.90	110.57±19.17	<0.01
DBP (mmHg)	79.67±11.48	74.11±10.62	0.04
Hcy (μmol/L)	14.63±7.01	9.77±4.13	<0.01
Folate (ng/mL)	9.23±3.62	11.05±3.85	0.03
Vit B12 (pg/mL)	560.27±237.85	615.47±283.70	<0.01
Hb (g/L)	154.20±10.25	130.78±11.99	<0.01
ALT (U/L)	28.24±20.69	17.57±11.49	<0.01
AST (U/L)	22.15±16.56	18.47±6.31	<0.01
FPG (mmol/L)	5.90±1.61	5.29±0.87	<0.01
G2h (mmol/L)	7.64±2.72	7.34±2.03	<0.01
TC (mmol/L)	4.76±0.91	4.74±0.93	0.36
TG (mmol/L)	2.14±1.92	1.30±0.89	<0.01
HDL-C (mmol/L)	1.12±0.28	1.41±0.35	<0.01
LDL-C (mmol/L)	3.11±0.81	3.09±0.84	0.27
AFP(μg/L)	3.18±3.26	2.71±1.73	<0.01
CEA(μg/mL)	1.96±1.63	1.24±1.02	0.04
UA (μmol/L)	378.62±75.67	266.29±56.18	<0.01
Cr (μmol/L)	74.03±13.11	54.71±8.38	<0.01

Table S2 Multilinear regression for the risk factors of HHcy for each sex

Variables	B	Standard error	Standardized coefficient	P value
Male				
Constant	73	0.89		0.01
Genotype (CC)	-2.50	0.15	- 3.18	0.00
Genotype (CT)	-3.94	0.98	- 3.55	0.00
Folate	-0.72	0.04	-0.36	0.00
VitB12	-0.01	0.00	-0.24	0.00
SBP	0.03	0.01	0.06	0.00
AST	0.02	0.01	0.04	0.02
Hb	0.03	0.01	0.04	0.01
Cr	0.08	0.01	0.15	0.00
ANOVA: F=95.23, P=0.00; R ² =0.27, adjusted R ² =0.27				
Female				
Constant	2.42	1.04		0.02
Genotype (CC)	-3.53	0.79	- 4.85	0.00
Genotype (CT)	-3.99	0.78	- 3.82	0.00
Folate	-0.32	0.03	-0.30	0.00
VitB12	-0.00	0.00	-0.29	0.00
SBP	0.02	0.01	0.10	0.00
Age	0.07	0.01	0.15	0.00
AST	0.15	0.03	0.23	0.00
ALT	-0.06	0.02	-0.17	0.00
UA	0.01	0.00	0.08	0.00
Cr	0.08	0.01	0.16	0.00
ANOVA: F=64.22, P=0.00; R ² =0.32, adjusted R ² =0.31				