SUPPLEMENTARY DATA

Supplementary Table 1. Effect of ethnicity on the relationship between BMI and insulin resistance, C-reactive protein and adiponectin.

	Ln (Insulin resistance)				Ln (C-reactive protein)				Ln (adiponectin)			
	Men		Women		Men		Women		Men		Women	
	β	P value	β	P value	β	P value	β	P value	β	P value	β	P value
Chinese	-	-	-	-	-	-	-	-	-	-	-	-
Malay	0.259	0.258	0.744	<0.001	0.763	0.022	1.079	0.001	-0.545	0.001	-0.364	0.016
Asian Indian	0.432	0.082	1.020	<0.001	0.574	0.112	1.423	<0.001	-0.606	0.001	-0.787	<0.001
BMI	0.110	<0.001	0.094	<0.001	0.098	<0.001	0.139	<0.001	-0.046	<0.001	-0.051	<0.001
BMI*Malay	-0.010	0.269	-0.031	<0.001	-0.020	0.124	-0.039	<0.001	0.023	0.001	0.019	0.001
BMI*Asian Indian	-0.004	0.674	-0.030	<0.001	-0.007	0.611	-0.039	0.002	0.024	0.002	0.031	<0.001
Constant	-2.700	<0.001	-2.292	<0.001	-2.886	<0.001	-3.799	<0.001	1.751	<0.001	2.185	<0.001
Model R²	31.5		36.5		17.7		33.3		11.1		12.2	

The analyses were adjusted for age. R² indicates the proportion of variance of the dependant variables attributable to ethnicity and BMI.
BMI, body mass index; β, regression coefficient

Supplementary Table 2. Effect of ethnicity on the relationship between waist circumference and insulin resistance, C-reactive protein and adiponectin.
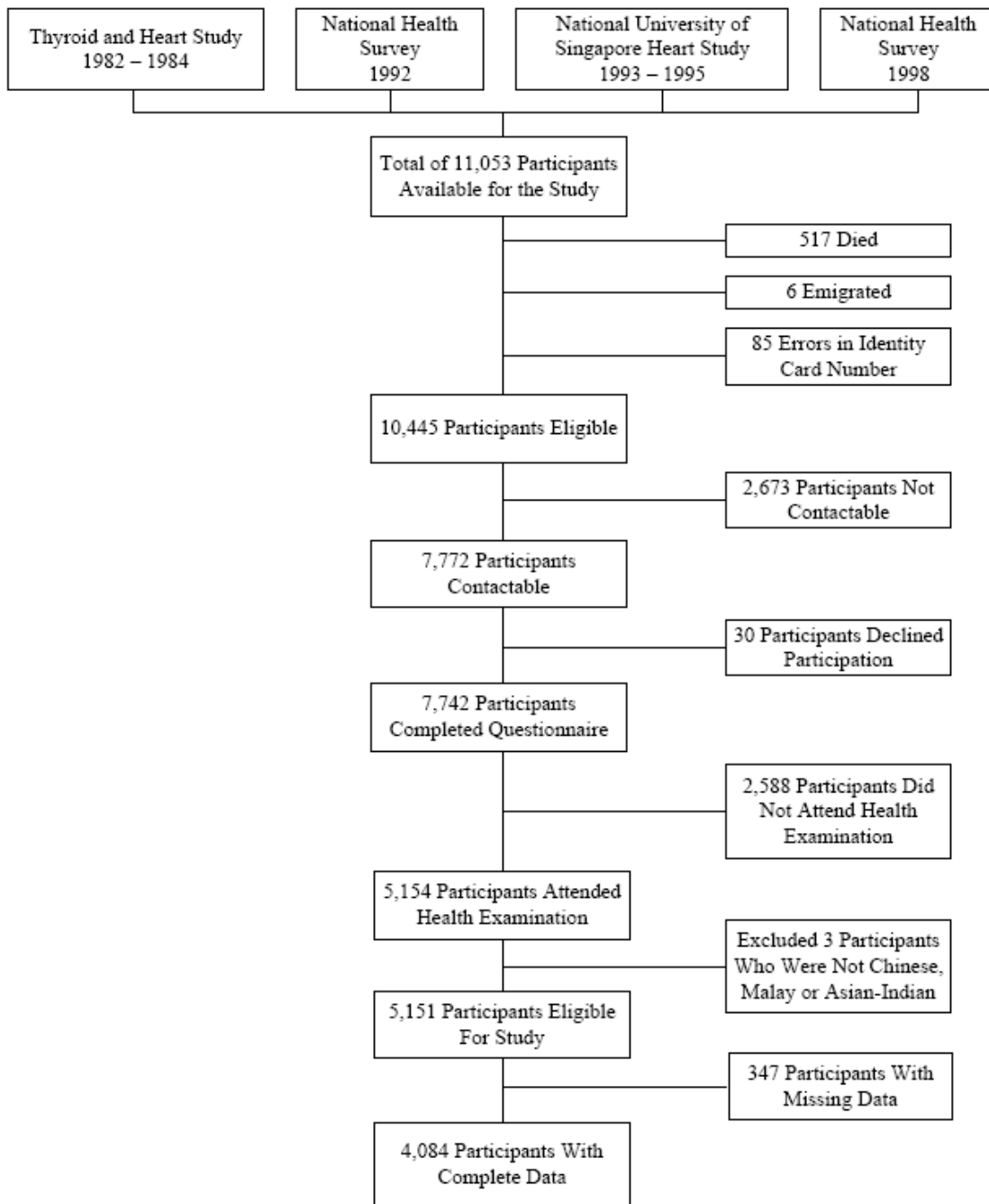
	Ln (Insulin resistance)				Ln (C-reactive protein)				Ln (adiponectin)			
	Men		Women		Men		Women		Men		Women	
	β	P value	β	P value	β	P value	β	P value	β	P value	β	P value
Chinese	-	-	-	-	-	-	-	-	-	-	-	-
Malay	0.217	0.490	0.774	0.001	0.825	0.078	1.509	<0.001	-0.700	0.003	-0.557	0.006
Asian Indian	0.571	0.076	0.950	<0.001	1.127	0.030	1.448	0.003	-1.077	<0.001	-0.810	<0.001
WC	0.043	<0.001	0.039	<0.001	0.041	<0.001	0.057	<0.001	-0.019	<0.001	-0.022	<0.001
WC*Malay	-0.002	0.649	-0.009	0.002	-0.006	0.270	-0.016	0.033	0.008	0.002	0.008	0.001
WC*Asian Indian	-0.004	0.293	-0.008	0.005	-0.009	0.120	-0.012	0.001	0.012	<0.001	0.010	<0.001
Constant	-3.5970	<0.001	-3.012	<0.001	-3.909	<0.001	-4.799	<0.001	2.216	<0.001	2.637	<0.001
Model R²	34.2		39.3		19.0		32.3		11.9		14.2	

The analyses were adjusted for age. R² indicates the proportion of variance of the dependant variables attributable to ethnicity and waist circumference.
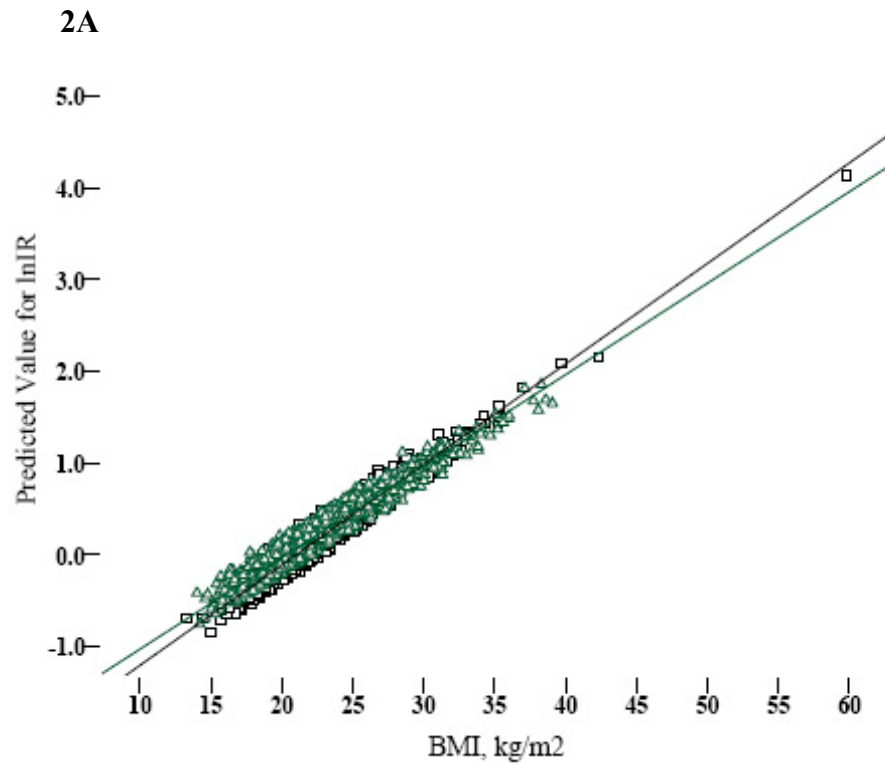WC, waist circumference; β, regression coefficient

SUPPLEMENTARY DATA

Supplementary Figure 1. Participant flow chart considered for inclusion in the study. The Singapore Prospective Study Program, 2004–2007.
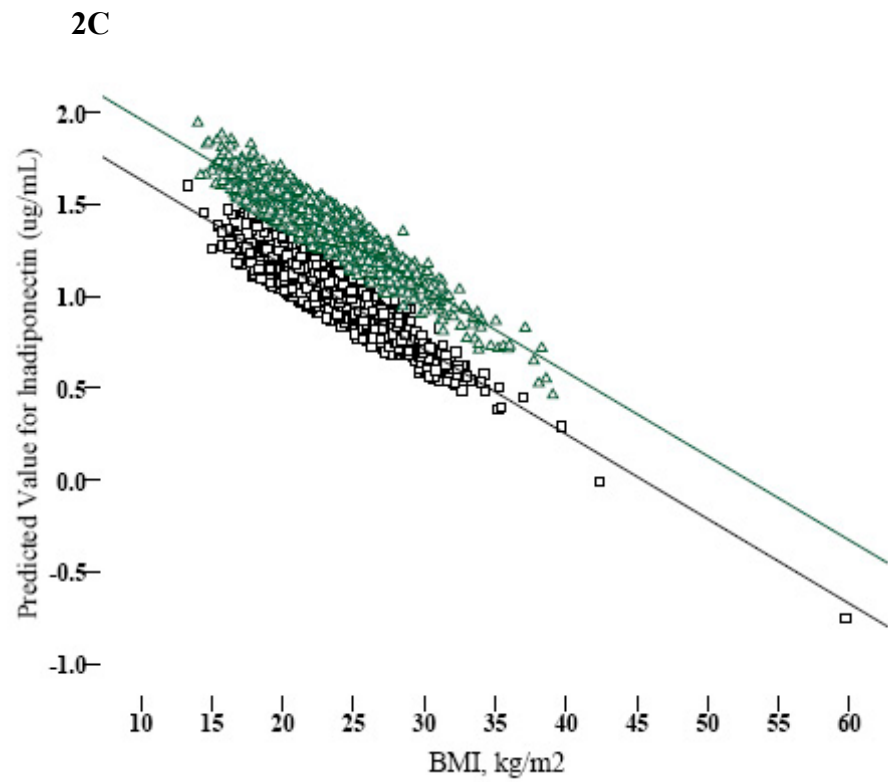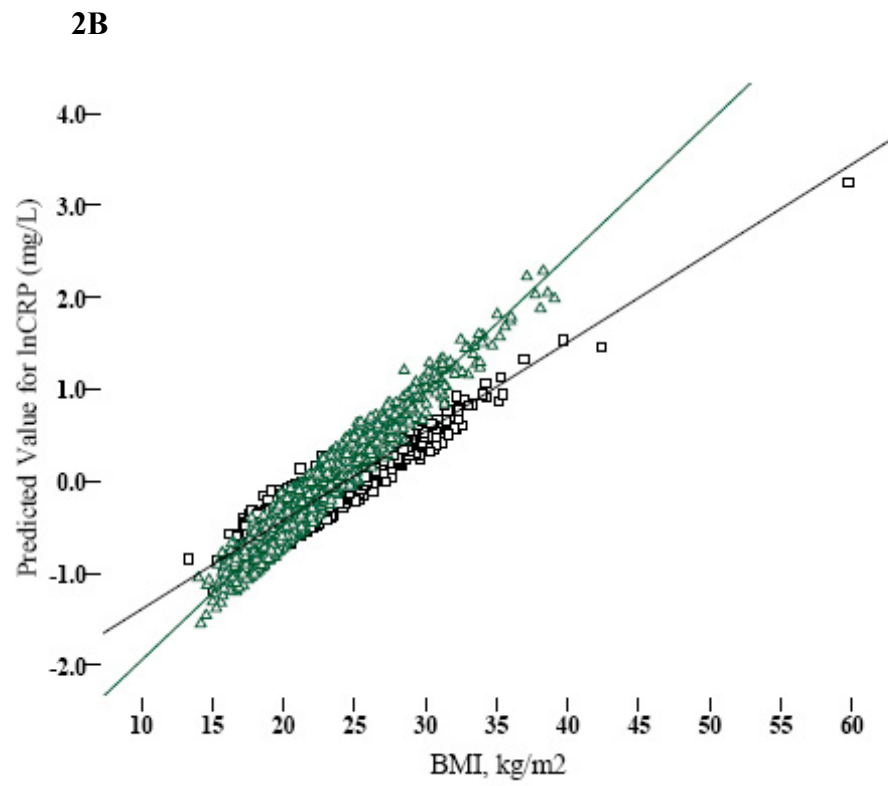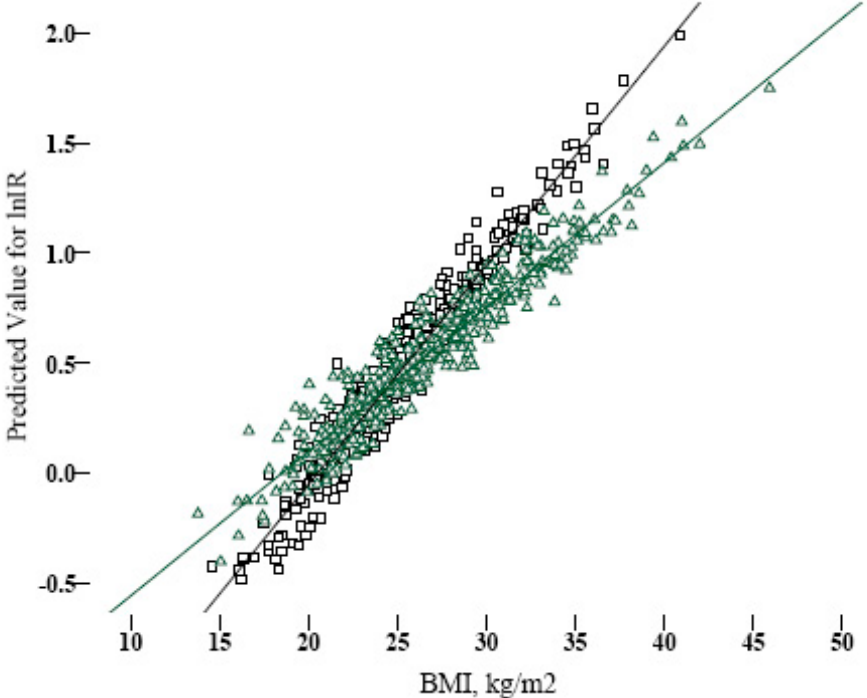
SUPPLEMENTARY DATA

Supplementary Figure 2. Age-adjusted fitted regression plots showing relationships between body mass index (BMI) and insulin resistance (IR), C-reactive protein (CRP) and adiponectin in ☐ Men and △ Women, stratified by ethnic groups. A-2A, Relationship of insulin resistance to BMI in Chinese (P interaction=0.003). A-2B, Relationship of CRP to BMI in Chinese (P interaction<0.001). A-2C, Relationship of adiponectin to BMI in Chinese (P interaction=0.465). A-2D, Relationship of insulin resistance to BMI in Malays (P interaction <0.001). A-2E, Relationship of CRP to BMI in Malays (P interaction=0.138). A-2F, Relationship of adiponectin to BMI in Malays (P interaction=0.437). A-2G, Relationship of insulin resistance to BMI in Asian-Indians (P interaction =0.001). A-2H, Relationship of CRP to BMI in Asian-Indians (P interaction=0.451). A-2I, Relationship of adiponectin to BMI in Asian-Indians (P interaction=0.682).

2A
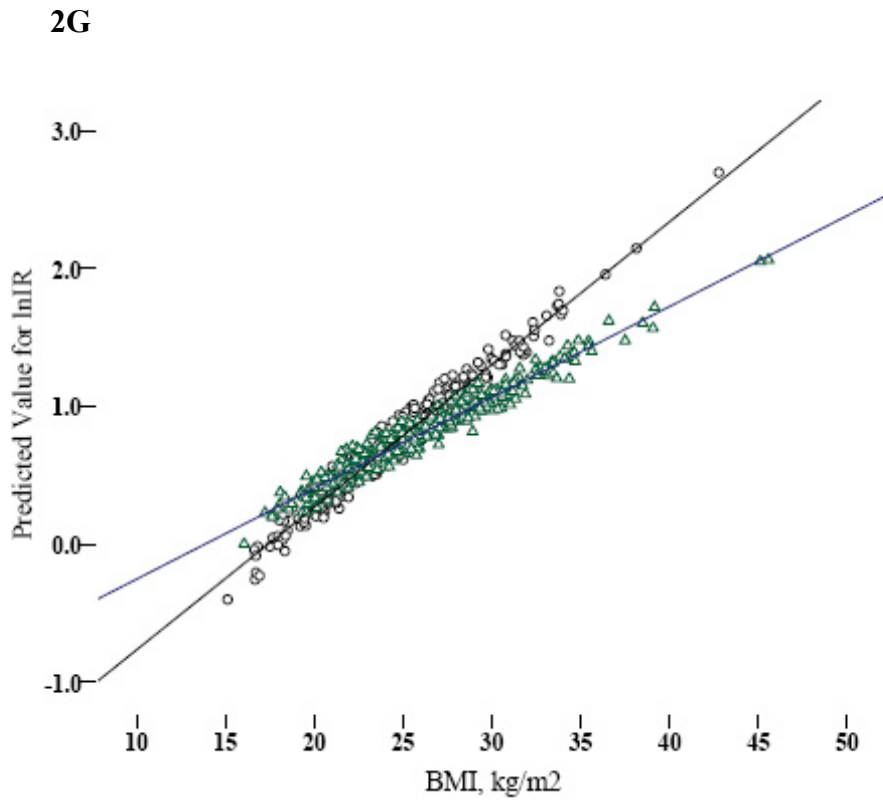
2B

2C

SUPPLEMENTARY DATA
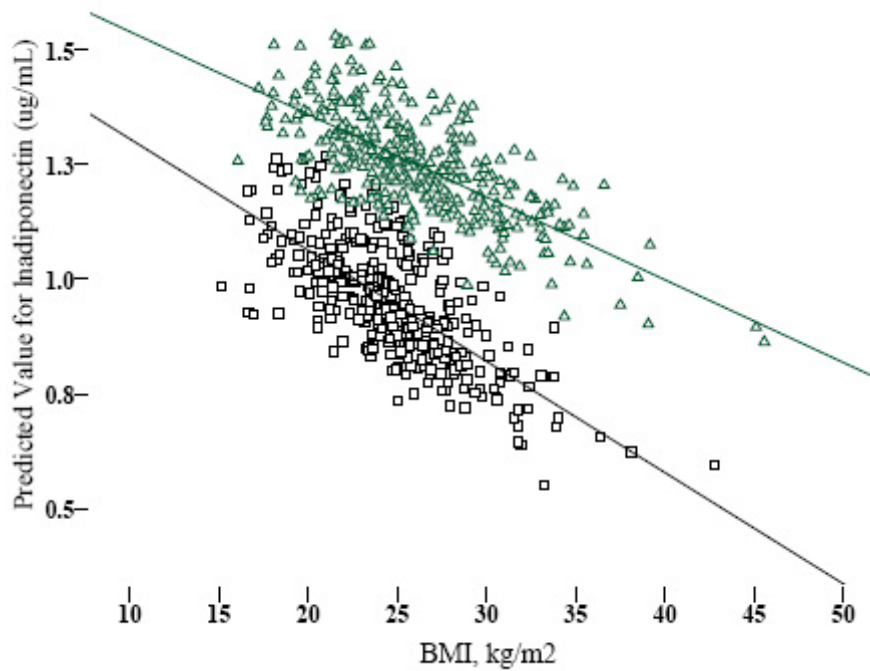
2D

2E

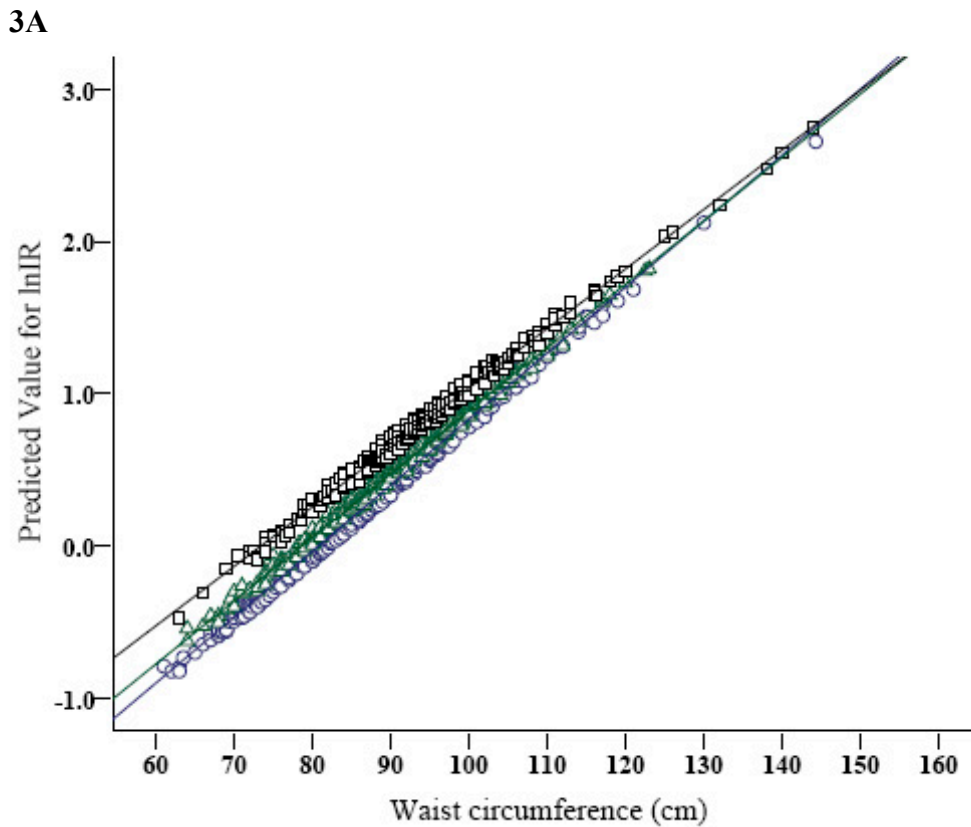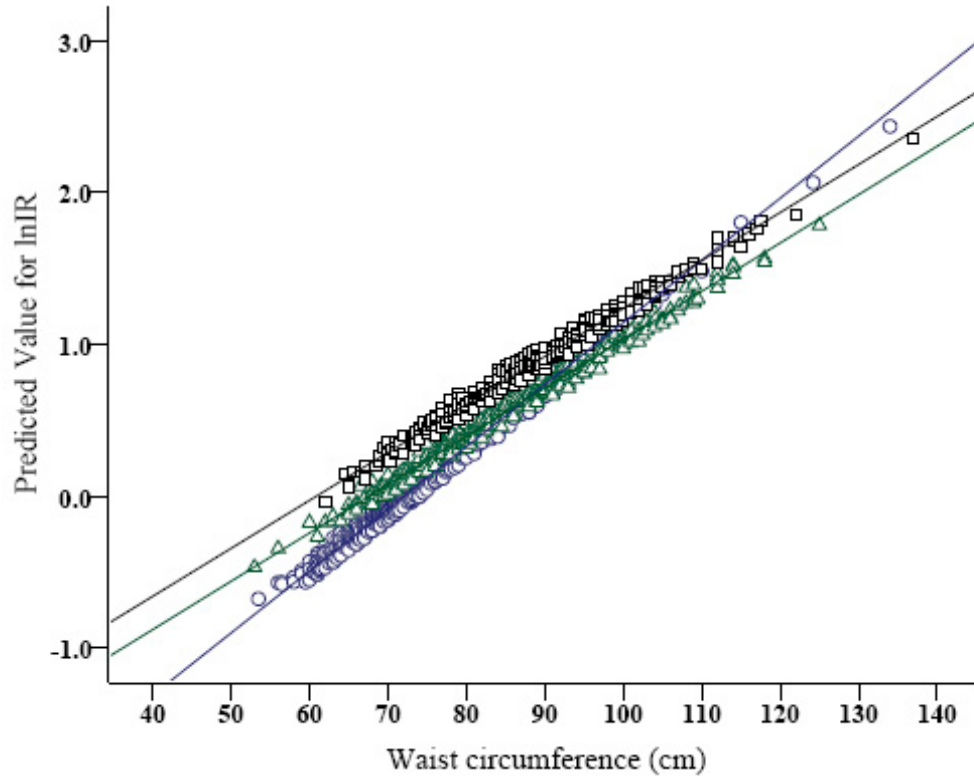**2F**

2G

SUPPLEMENTARY DATA

2H

2I

SUPPLEMENTARY DATA

Supplementary Figure 3. Age-adjusted fitted regression plots showing relationships between waist circumference and insulin resistance (IR), C-reactive protein (CRP) and adiponectin in O Chinese, Δ Malays and Asian-Indians, stratified by gender. A-3A, Relationship of insulin resistance to waist circumference in men (P interaction=0.566). A-3B, Relationship of insulin resistance to waist circumference in women (P interaction =0.001). A-3C, Relationship of CRP to waist circumference in men (P interaction=0.226). A-3D, Relationship of CRP to waist circumference in women (P interaction=0.002). A-3E, Relationship of adiponectin to waist circumference in men (P interaction<0.001). A-3F, Relationship of adiponectin to waist circumference in women (P interaction<0.001).
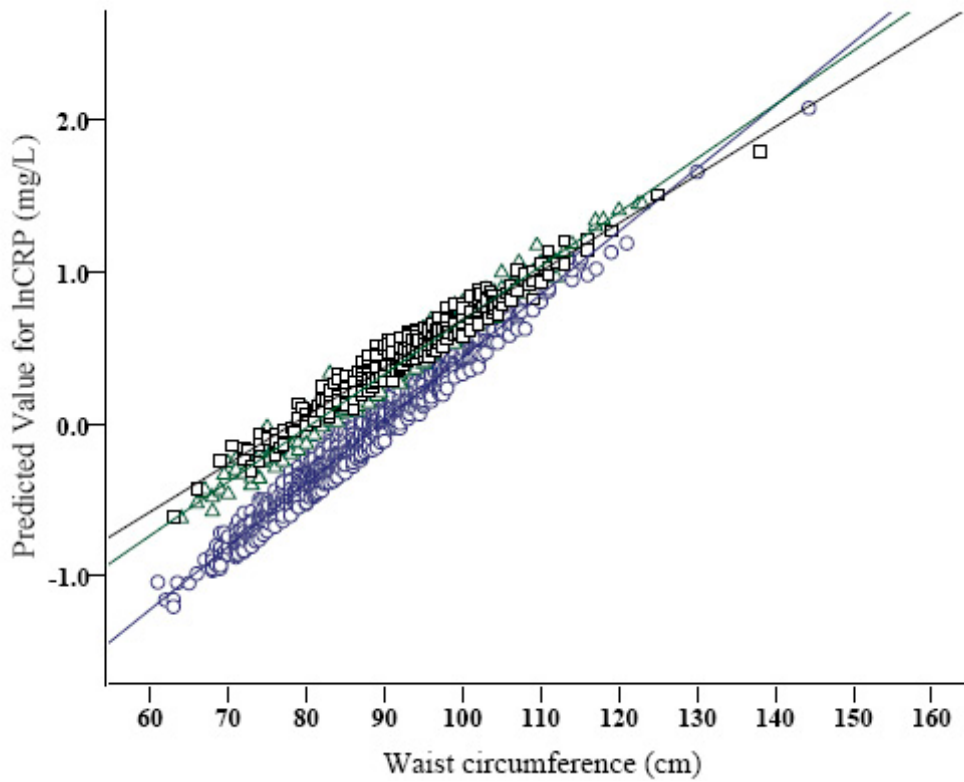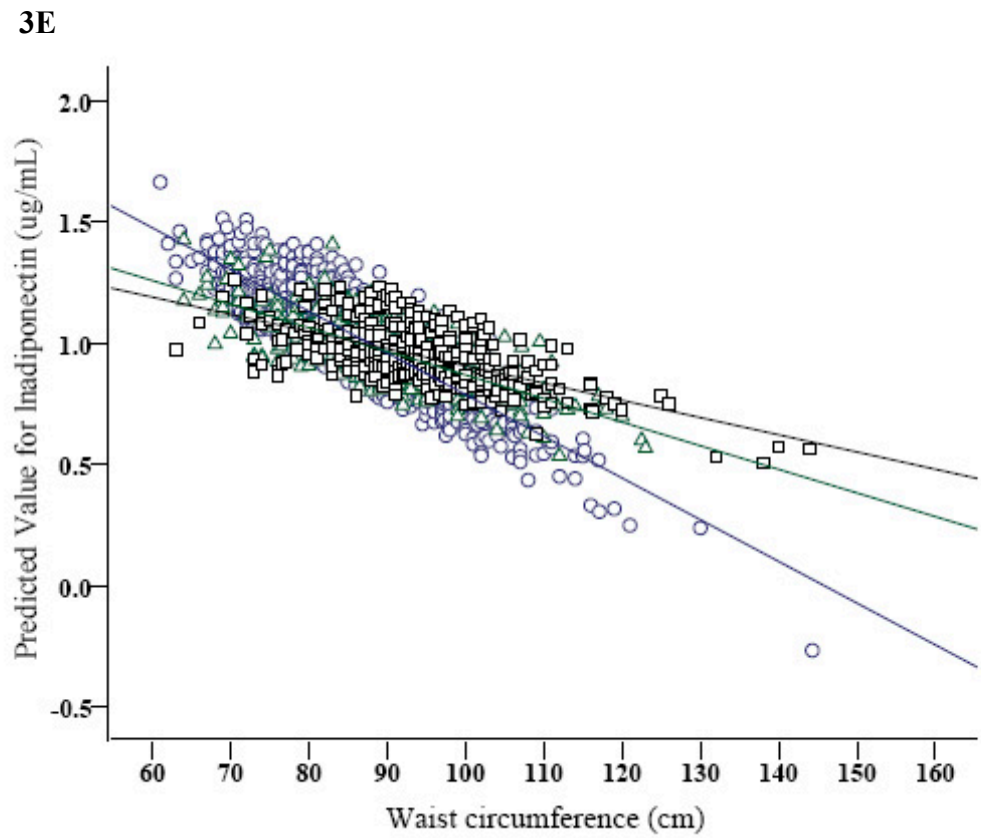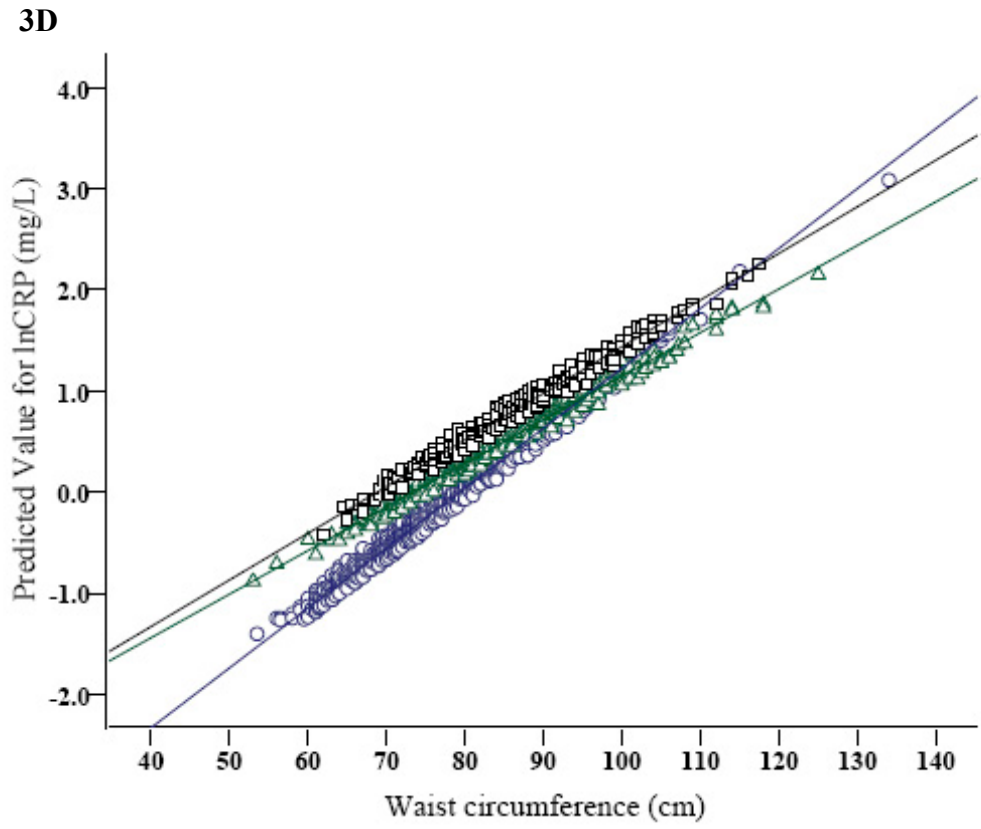
SUPPLEMENTARY DATA

3B

3C

SUPPLEMENTARY DATA

3D

3E

SUPPLEMENTARY DATA

3F