

Title

Determinants of high fasting insulin and insulin resistance among overweight / obese adolescents

Authors

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Supplementary Table 1: Risk of hyperinsulinaemia and insulin resistance in in overweight and obese Malaysian with selected predictors presented as odds ratio (OR) and 95% Confidence Interval (CI) with *p*-values.

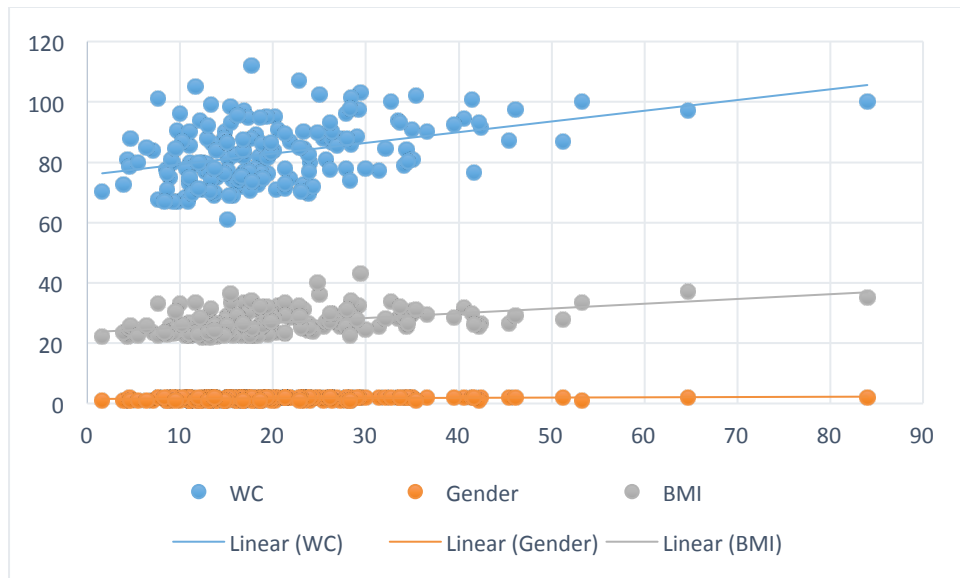
Variables	Hyperinsulinaemia		Insulin resistance	
	(Fasting insulin >20mU/L)		(HOMA-IR >3)	
	OR* (95% CI)	<i>p</i> -value	OR*(95% CI)	<i>p</i> -value
Gender (Female)	6.04 (0.90, 40.49)	0.06	2.51 (0.46, 13.76)	0.29
Pubertal stage	3.13 (1.02, 9.64)	0.05	1.50 (0.59, 3.78)	0.39
BMI	1.48 (1.11, 1.98)	0.008	1.27 (0.94, 1.71)	0.12
WC (cm)	1.10 (1.01, 1.20)	0.04	1.02 (0.93, 1.12)	0.61
BF%	0.96 (0.87, 1.08)	0.47	1.04 (0.94, 1.15)	0.47
PFS	1.00 (0.95, 1.05)	0.99	1.01 (0.95, 1.07)	0.73

*Adjusted for age (months), ethnicity, maternal education, birth weight, breast-feeding status and WHtR

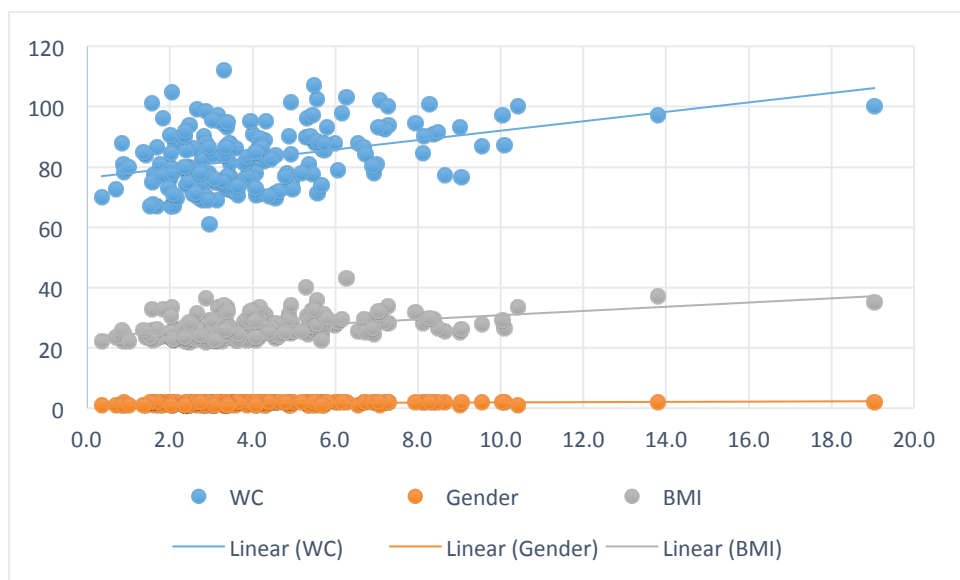
BF%: body fat percentage; BMI: body mass index; HOMA-IR: Homeostatic model assessment of insulin resistance; PFS: physical fitness score; WC: waist circumference; WHtR: waist-height ratio.

Supplementary Figure 1: Paired scatter plots showing the relationship between a) log-fasting insulin, and b) log-HOMA-IR and its predictors; waist circumference, gender and BMI.

a)



b)



BMI: body mass index; HOMA-IR: Homeostatic model assessment of insulin resistance; WC: waist circumference.