

Supplementary Materials:

Supplementary Table:

Table S1. Association between metabolic syndrome, color/ethnicity, economic classification, behavior variables, laboratory exams and blood pressure of the evaluated adolescents.

Variables	Metabolic Syndrome		P value
	No	Yes	
Color/ethnicity			
Mixed Race	69.6 (48)	66.7 (6)	0.85 ^(b)
White	24.6 (17)	33.3 (3)	
Black ^(d)	4.3 (3)	0.0 (0)	
East Asian ^(c)	1.5 (1)	0.0 (0)	
Economic classification			
A (USD 4121.23)	1.5 (1)	0.0 (0)	0.30 ^(b)
B1(USD 2054.96)	4.3 (3)	11.1 (1)	
B2 (USD 1089.85)	17.4 (12)	11.1 (1)	
C1 (USD 608.44)	31.9 (22)	66.7 (6)	
C2 (USD 360.94)	29.0 (20)	11.1 (1)	
DE (USD 164.26)	15.9 (11)	0.0 (0)	
Sedentary behavior			
No	11.6 (8)	22.2 (2)	0.32 ^(a)
Yes	88.4(61)	77.8 (7)	

Physical activity classification0.49 ^(a)			
Physically inactive	63.8 (44)	77.8 (7)	0.49 ^(a)
Physically active	36.2 (25)	22.2 (2)	
Sun exposure			
No	47.8 (33)	22.2 (2)	0.18 ^(a)
Yes	52.2 (36)	77.8 (7)	
Physical activity practice in the sun			
No	63.8 (44)	55.6 (5)	0.72 ^(a)
Yes	36.2 (25)	44.4 (4)	
Use of supplement			
No	92.7 (64)	88.9 (8)	0.53 ^(a)
Yes	7.3 (5)	11.1 (1)	
Skipping breakfast			
No	47.8 (33)	44.4(4)	1.00 ^(a)
Yes	52.2 (36)	55.6(5)	
Excessive screen time			
No	13.0 (9)	22.2 (2)	0.61 ^(a)
Yes	87.0 (60)	77.8 (7)	
Eating in front of TV			
No	17.4(12)	0.0 (0)	0.34 ^(a)
Yes	82.6(57)	100.0(9)	
Smoking			
No	98.5 (68)	100.0(9)	1.00 ^(a)
Yes	1.5 (1)	0.0 (0)	
Consumption of alcoholic drinks			
No	100.0 (69)	100.0(9)	-
Yes	0.0 (0)	0.0 (0)	

Consumption of mate-based drinks			
No	11.6 (8)	44.4 (4)	0.03 ^(a)
Yes	88.4 (61)	55.6 (5)	
History of fractures			
No	81.2 (56)	77.8 (7)	1.00 ^(a)
Yes	18.8 (13)	22.2 (2)	
Sexual maturity			
Prepubertal	5.8 (4)	0.0 (0)	0.32 ^(b)
Pubertal	79.7 (55)	100.0(9)	
Postpubertal	14.5 (10)	0.0 (0)	
Nutritional status			
Eutrophy	37.1 (26) ^A	11.1(1) ^B	0.001 ^(b)
Overweight	37.7 (26) ^A	0.0 (0) ^B	
Obesity	25.2 (17) ^B	88.9 (8) ^A	
Waist circumference			
Normal	95.7 (66)	22.2(2)	<0.0001 ^(a)
Elevated	4.3 (3)	77.8 (7)	
Neck circumference			
Normal	81.2 (56)	44.4 (4)	0.03 ^(a)
Elevated	18.8 (13)	55.6 (5)	
Systolic blood pressure classification			
Normal	81.2 (56)	11.1 (1)	<0.0001 ^(a)
Elevated	18.8 (13)	88.9 (8)	
Diastolic blood pressure classification			
Normal	89.9 (62)	22.2 (2)	<0.0001 ^(a)
Elevated	10.1 (7)	77.8 (7)	
Hypovitaminosis D			

No	12.7(8)	12.5(1)	1.00 ^(a)
Yes	87.3(55)	87.5(7)	
Calcium levels^(c)			
Normal	100.0 (67)	100.0(9)	-
Elevated	0.0 (0)	0.0 (0)	
Plasmatic phosphorous levels^(c)			
Normal	70.8(46)	50.0(4)	0.25 ^(a)
Altered	29.2(19)	50.0(4)	
Parathormone levels^(c)			
Normal	90.3 (56)	100.0(8)	1.00 ^(a)
Altered	9.7 (6)	0.0 (0)	
Insulin levels^(c)			
Normal	65.6 (40)	11.1(1)	0.003 ^(a)
Elevated	34.4 (21)	88.9(8)	
Glycemia^(c)			
Normal	98.5 (65)	100.0(8)	1.00 ^(a)
Elevated	1.5 (1)	0.0 (0)	
Glycated hemoglobin levels^(c)			
Normal	98.4 (61)	100.0(8)	1.00 ^(a)
Elevated	1.6 (1)	0.0 (0)	
Total cholesterol levels^(c)			
Normal	74.2 (49)	11.1(1)	0.0004 ^(a)
Elevated	25.8 (17)	88.9 (8)	
HDL levels^(c)			
Normal	81.8(54)	66.7 (6)	0.37 ^(a)
Altered	18.2 (12)	33.3 (3)	
Triglyceride levels^(c)			

Normal	47.0 (31)	11.1 (1)	0.07 ^(a)
Elevated	53.0 (35)	88.9 (8)	

The results are presented as relative frequency (absolute frequency). (a) Fisher's exact test; (b) Chi-square test; (c) No information from some participants. Different letters in the column indicate significant differences between girls with and without MS (chi-square test with Bonferroni correction, $p < 0.05$).