

Table S1. Anthropometric, physical activity and blood biochemical parameters in the schoolchildren studied according to sex and age.

	Total		p	Girls		Boys		p
	08-10 years (n=541)	11-13 years (n=313)		08-10 years (n=272)	11-13 years (n=169)	08-10 years (n=269)	11-13 years (n=144)	
Madrid [% (n)]	53.2(288)	59.7(187)		56.3(153)	63.3(107)	50.2(135)	55.6(80)	
Barcelona [% (n)]	6.8(37)	9.6(30)		6.6(18)	8.3(14)	7.1(19)	11.1(16)	
Sevilla [% (n)]	12.6(68)	12.1(38)	0.004	12.1(33)	10.7(18)	0.268	13.0(35)	13.9(20)
A Coruña [% (n)]	13.7(74)	12.8(40)		11.8(32)	10.7(18)		15.6(42)	15.3(22)
Valencia [% (n)]	13.7(74)	5.8(18)		13.2(36)	7.1(12)		14.1(38)	4.2(6)
Body composition								
Weight (kg) -A	36.7±8.2	44.1±9.4	<0.001	36.4±7.4	44.8±9.4	<0.001	37.1±8.8	43.2±9.4
Height (m) # -SA	1.4±0.1	1.5±0.1	<0.001	1.4±0.1	1.5±0.1	<0.001	1.4±0.1	1.5±0.1
BMI (kg/m ²) -A	18.6±3.1	19.7±3.0	<0.001	18.4±2.9	19.7±2.9	<0.001	18.8±3.4	19.6±3.1
Z-BMI # -S	0.68±1.19	0.69±1.02	0.498	0.54±1.07	0.62±0.99	0.216	0.83±1.28	0.76±1.05
Nutritional status by BMI								
Underweight [% (n)]	0.7(4)	1.0(3)		0.7(2)	0.6(1)		0.7(2)	1.4(2)
Normal weight [% (n)]	58.8(318)	60.4(189)		64.3(175)	61.5(104)		53.2(143)	59.0(85)
Overweight [% (n)]	26.6(144)	28.8(90)	0.386	26.8(73)	32.5(55)	0.482	26.4(71)	24.3(35)
Obesity [% (n)]	13.9(75)	9.9(31)		8.1(22)	5.3(9)		19.7(53)	15.3(22)
Body fat (%) # -SA	27.0±6.1	28.7±4.7	<0.001	28.7±5.0	30.3±3.8	<0.001	25.2±6.5	26.9±5.0
Nutritional status by body fat percentage								
Low fat [% (n)]	0.6(3)	0.0(0)		0.4(1)	0.0(0)		0.7(2)	0.0(0)
Normal fat [% (n)]	40.4(218)	30.0(94)		43.8(119)	34.9(59)		37.1(99)	24.3(35)
Fat excessive [% (n)]	26.2(141)	40.9(128)	<0.001	28.3(77)	40.8(69)	0.046	24.0(64)	41.0(59)
Obesity [% (n)]	32.8(177)	29.1(91)		27.6(75)	24.3(41)		38.2(102)	34.7(50)
Physical activity								
Activity coefficient -A	1.54±0.11	1.51±0.11	0.007	1.53±0.11	1.51±0.10	0.089	1.54±0.10	1.52±0.12
Biochemical data								
Glucose (mg/dL) -S	84.0±10.0	85.1±9.0	0.112	82.7±10.2	84.5±9.6	0.134	85.3±9.7	85.9±8.2
Insulin (mcU/mL) -SA	5.8±4.0	7.3±4.8	<0.001	6.3±4.3	8.3±5.3	<0.001	5.2±3.5	6.1±3.9
QUICKI -SA	0.39±0.05	0.37±0.04	<0.001	0.39±0.05	0.37±0.04	<0.001	0.40±0.04	0.38±0.04
HOMA-IR -SA	1.21±0.87	1.54±1.09	<0.001	1.31±0.94	1.74±1.23	<0.001	1.10±0.77	1.30±0.86
IR [% (n)] -SA	3.51(19)	8.31(26)	0.003	4.78(13)	10.65(18)	0.023	2.23(6)	5.56(8)

BMI, body mass index; IR, insulin resistance. Two-way ANOVA analysis: S: differences according to sex; A: differences according to age; R: interaction between sex and age. # Variable follow a normal distribution. For comparison of means, the Mann-Whitney U test was used if the distribution of the variables was not homogeneous, the Student's t-test for homogeneous distributions.