

SUPPLEMENTARY INFORMATION

Table S2. Association between obesity and SDQ score (0-40 points) in children at 9 and 12 years of age, excluding underweight children (zBMI ≤ 2 standard deviations below the mean)

SDQ ^a	Total		Boys		Girls		
	β ^b Coef. (95% CI)	<i>p</i> -value	β Coef. (95% CI)	<i>p</i> -value	β Coef. (95% CI)	<i>p</i> -value	<i>p</i> -interaction
<i>Total Difficulties Score (TDS – SDQ)</i>							
No obesity	(ref)	<0.001	(ref)		(ref)	0.001	0.348
Obesity ^c	1.09 (0.57; 1.62)		0.82 (0.12; 1.52)	0.022	1.39 (0.59; 2.18)		
<i>Emotional symptoms</i>							
No obesity	(ref)	0.002	(ref)	0.094	(ref)	0.010	0.412
Obesity ^c	0.30 (0.11; 0.50)		0.21 (–0.04; 0.46)		0.41 (0.10; 0.72)		
<i>Conduct problems</i>							
No obesity	(ref)	<0.001	(ref)	0.026	(ref)	0.004	0.598
Obesity ^c	0.26 (0.12; 0.41)		0.22 (0.03; 0.42)		0.31 (0.10; 0.52)		
<i>Hyperactivity:</i>							
No obesity	(ref)	0.638	(ref)		(ref)	0.226	0.275
Obesity ^c	0.05 (–0.17; 0.27)		–0.04 (–0.35; 0.26)	0.765	0.19 (–0.14; 0.50)		
<i>Peer relation problems</i>							
No obesity	(ref)	<0.001	(ref)		(ref)	<0.001	0.956
Obesity ^c	0.54 (0.32; 0.75)		0.57 (0.34; 0.81)	<0.001	0.56 (0.34; 0.78)		
<i>Prosocial behaviour ^e</i>							
No obesity	(ref)	0.906	(ref)	0.618	(ref)	0.694	0.375
Obesity ^c	–0.01 (–0.13; 0.12)		–0.05 (–0.23; 0.13)		0.03 (–0.14; 0.21)		

^a Strengths and Difficulties Questionnaire by parents: Total Difficulties Score (0–40 points). Higher score indicates more problems

^b β coefficient estimated by GEE linear regression and adjusted for age, household purchasing power, diet quality index (Mediterranean Diet Quality Index) and physical activity (Physical Activity Questionnaire-Children)

^c Obesity: body mass index (BMI) ≥ 2 standard deviations above the mean according to the 2007 World Health Organization standardized tables

^d *p* for interaction between obesity and sex

^e Lower scores indicate lower prosocial behaviour

95% CI: 95% confidence interval