

Table S1: Characteristics of friends identified by the source children, overall and by categories of friends parental education and friends parental immigrant background

	N	Overall	Parental education		Immigrant background	
			High (n = 790)	Medium-low (n = 918)	Yes (n = 242)	No (n = 1408)
Mean (SD)						
Age (years)	1767	13.4 (0.8)	13.4 (0.8)	13.3 (0.9)	13.2 (0.8)	13.4 (0.8)
BMI z-score	1766	0.64 (1.09)	0.40 (1.05)	0.85 (1.08)	0.84 (1.02)	0.60 (1.10)
Body fat percent z-score	1716	0.51 (1.07)	0.24 (1.02)	0.73 (1.06)	0.72 (0.95)	0.47 (1.08)
Impulsivity	1430	25.3 (7.5)	24.5 (7.1)	25.9 (7.8)	24.9 (7.8)	25.2 (7.4)
HRQoL	1561	38.6 (5.2)	38.3 (5.1)	38.8 (5.3)	39.0 (4.8)	38.5 (5.3)
Cognitive and school functioning	1605	2.56 (0.69)	2.58 (0.65)	2.55 (0.73)	2.67 (0.70)	2.54 (0.69)
Weight concerns	1563	1.42 (1.61)	1.42 (1.61)	1.42 (1.60)	1.44 (1.59)	1.43 (1.61)
Fast food frequency (times/week)	1574	3.8 (2.3)	3.6 (2.1)	4.0 (2.4)	3.8 (2.3)	3.8 (2.2)
Sugar propensity (%)	1659	23.7 (10.7)	22.1 (9.7)	24.9 (11.3)	24.2 (11.5)	23.6 (10.6)
Fat propensity (%)	1659	24.6 (9.1)	24.0 (8.4)	25.0 (9.7)	24.2 (9.1)	24.6 (9.2)
Sports club participation (hours/week)	1577	2.6 (3.1)	3.2 (3.3)	2.1 (2.9)	2.3 (3.3)	2.7 (3.1)
Screen time (hours/week)	1612	19.6 (12.1)	18.4 (11.5)	20.5 (12.4)	19.6 (12.3)	19.5 (12.0)
N (%)						
Male sex	1767	831 (47)	432 (45)	442 (48)	112 (46)	664 (47)
Being bullied ^a	1602	576 (36)	277 (39)	280 (34)	74 (34)	467 (37)
High parental education	1708	790 (46)	-	-	88 (40)	675 (48)
Parental immigrant background	1650	242 (15)	88 (12)	150 (17)	-	-

^a any bullying and social rejection vs. none

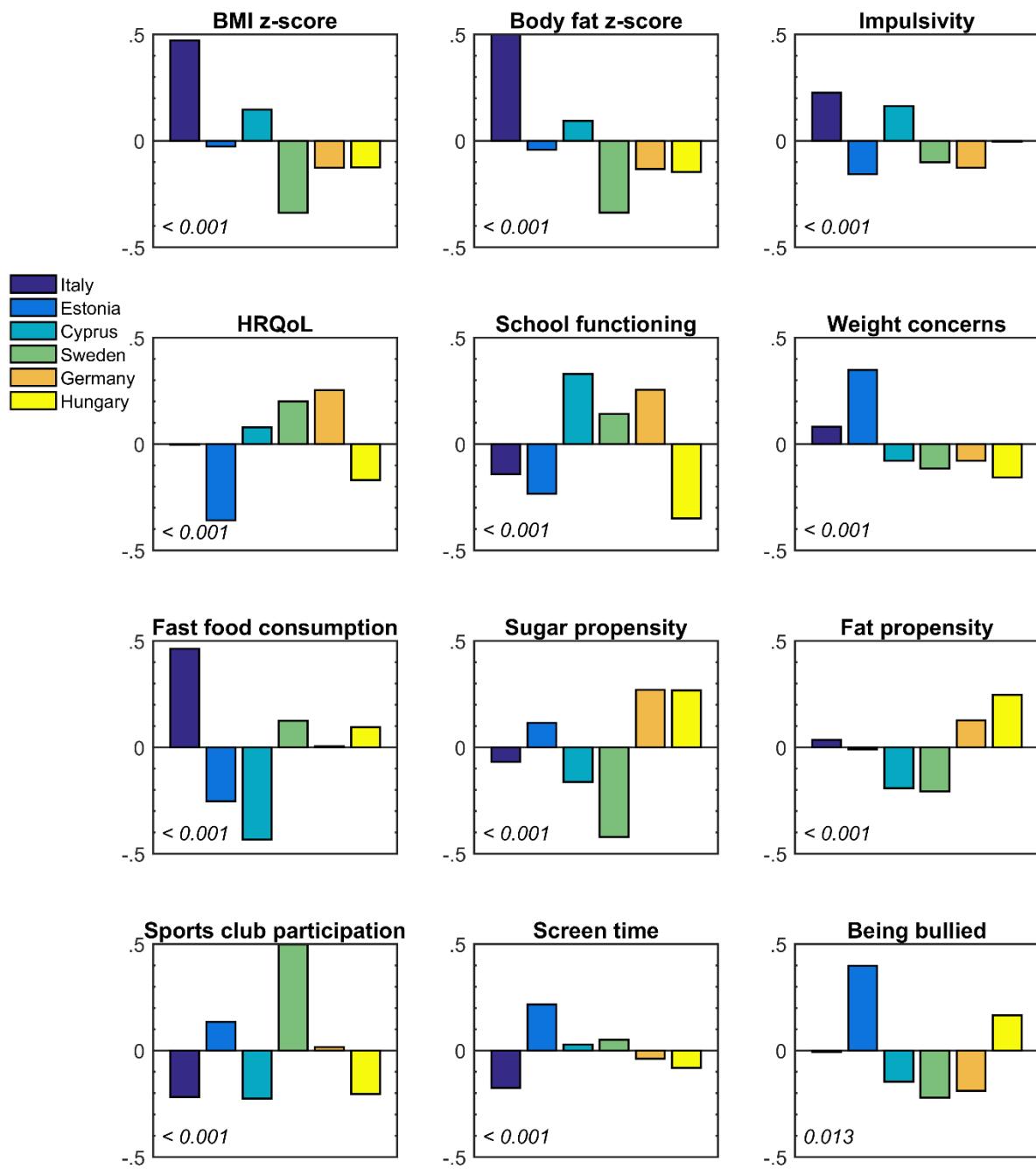
Health-related quality-of-life (HRQoL)

Table S2: Prevalence of high parental education, parental immigrant background, and obesity as well as average number of friends, and time spent with friends by survey country.

	Total	High parental education	Immigrant background	Obesity	Number of friends	Total time spent with friends ^a
		n (%)	n (%)	n (%)	mean (SD)	mean (SD)
Italy	427	72 (17)	73 (17)	66 (15)	3.3 (1.9)	12 (8)
Estonia	335	219 (65)	21 (7)	19 (6)	2.7 (1.6)	10 (7)
Cyprus	317	179 (56)	62 (22)	33 (10)	1.6 (0.9)	6 (4)
Sweden	134	105 (78)	13 (10)	0 (0)	1.9 (1.1)	7 (5)
Germany	188	76 (40)	60 (32)	7 (4)	1.7 (0.9)	6 (4)
Hungary	139	61 (44)	5 (4)	8 (6)	2.2 (1.6)	9 (7)

^a for each friend: 1 = little time, 5 = a lot of time, then summed over all friends

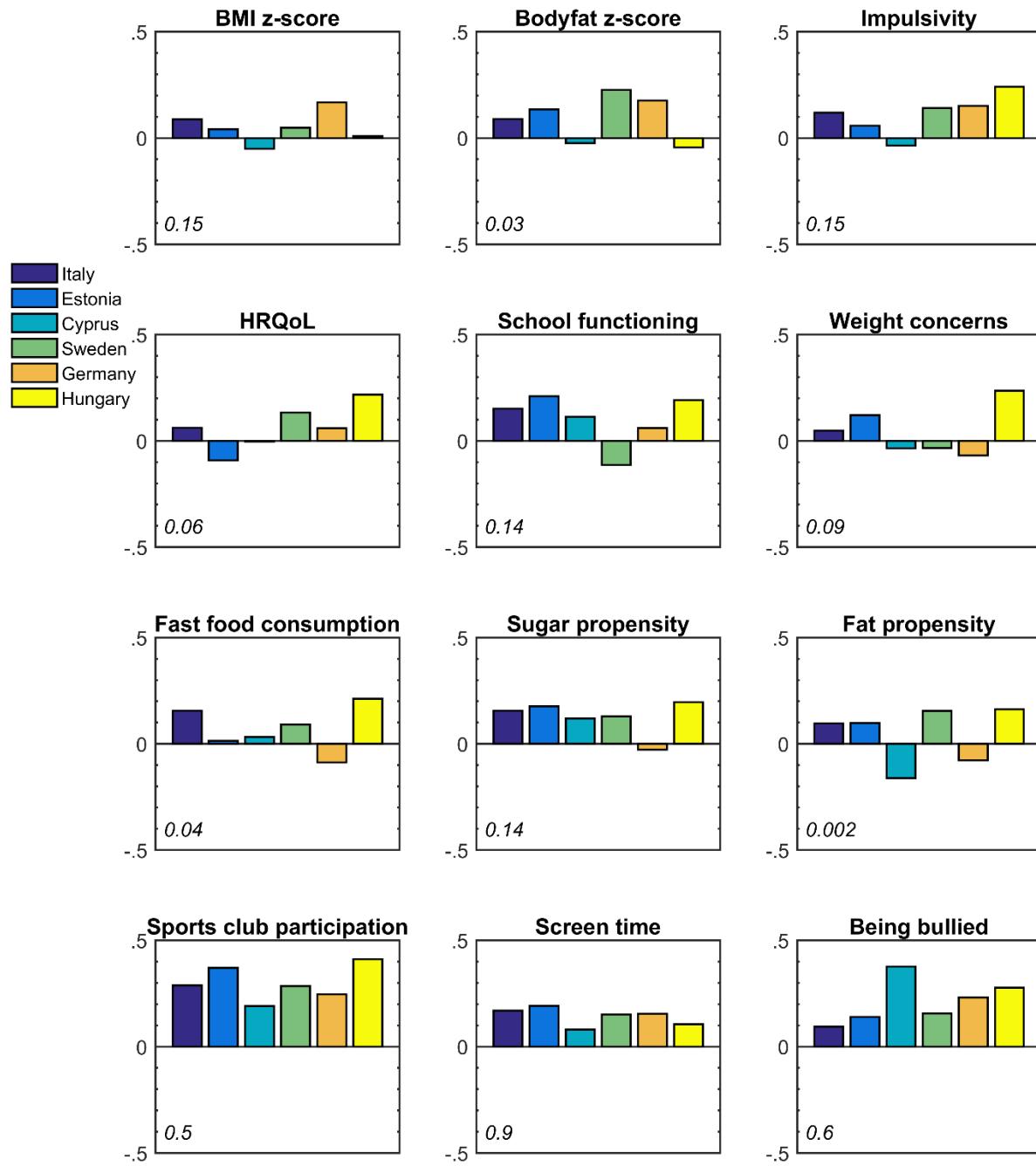
Figure S1: Country-specific estimates for source children's characteristics^a, where positive values indicate higher than average mean values, and negative ones lower than average mean values ^a including the p-value for between-country differences (F-test) ^b.



^a Standardized estimated beta-coefficients for continuous characteristics, and log OR for being bullied, adjusted for age, sex, parental education.

^b Numerical values for estimates shown in Figure S1 are given in Table S3.

Figure S2: Country-specific associations between source children's and friends' traits and behaviors ^a including the overall p-value for interaction (F-test) ^b.



^a Standardized estimated beta-coefficients for continuous variables, and log OR for being bullied, adjusted for age, sex, and parental education, and including interactions between country and friends' mean values

^b Numerical values for estimates shown in Figure S2 are given in Table S3.

Table S3: Numerical values for estimates shown in Figures S1 and S2

Figure S1	Estimated beta-coefficients					
	Italy	Estonia	Cyprus	Sweden	Germany	Hungary
BMI z-score	0.471	-0.026	0.146	-0.338	-0.127	-0.125
Body fat percent z-score	0.562	-0.041	0.094	-0.337	-0.132	-0.146
Impulsivity	0.223	-0.157	0.163	-0.101	-0.127	-0.004
HRQoL	-0.003	-0.359	0.079	0.200	0.253	-0.170
School functioning	-0.143	-0.233	0.323	0.141	0.255	-0.350
Weight concerns	0.080	0.349	-0.078	-0.115	-0.079	-0.157
Fast food frequency	0.463	-0.254	-0.434	0.125	0.004	0.095
Sugar propensity	-0.068	0.115	-0.163	-0.422	0.270	0.268
Fat propensity	0.035	-0.009	-0.193	-0.207	0.127	0.247
Sports club participation	-0.219	0.134	-0.225	0.498	0.016	-0.204
Screen time	-0.176	0.217	0.028	0.051	-0.038	-0.081
Odds ratios						
Being bullied	0.994	1.488	0.864	0.802	0.828	1.181

Figure S2	Estimated beta-coefficients					
	Italy	Estonia	Cyprus	Sweden	Germany	Hungary
BMI z-score	0.0882	0.0414	-0.0507	0.0484	0.168	0.0086
Body fat percent z-score	0.089	0.135	-0.025	0.226	0.176	-0.044
Impulsivity	0.119	0.0572	-0.0354	0.140	0.151	0.241
HRQoL	0.062	-0.092	-0.0038	0.133	0.0591	0.218
School functioning	0.152	0.2094	0.1125	-0.1144	0.060	0.1917
Weight concerns	0.0479	0.121	-0.0352	-0.034	-0.0685	0.2359
Fast food frequency	0.1555	0.0133	0.0316	0.0907	-0.088	0.2117
Sugar propensity	0.156	0.1765	0.1192	0.1290	-0.0269	0.1955
Fat propensity	0.096	0.0982	-0.1616	0.1547	-0.0774	0.163
Sports club participation	0.288	0.37	0.19	0.285	0.2464	0.411
Screen time	0.169	0.192	0.0806	0.151	0.154	0.105
Odds ratios						
Being bullied	1.098	1.150	1.457	1.169	1.260	1.319