

Supplementary Materials

Table S1. Characteristics of study-population, parent-reported variables

Variable	Study population (n = 520) ¹
	Mean, SD
Self-esteem child age 11, mean (SD), parent-reported	71.1 (12.4)
Self-esteem child age 13, mean (SD), parent-reported	69.5 (14.0)
Difference of self-esteem child age 13 and 11, mean (SD), parent-reported	
Male	-1.4 (14.5)
Female	-2.2 (15.0)
Watching TV child age 11 (h/d), mean (SD), parent-reported	1.1 (0.7)
Watching TV child age 13 (h/d), mean (SD), parent-reported	1.4 (0.7)
Other screen time child age 11 (h/d), mean (SD), parent-reported	0.6 (0.5)
Other screen time child age 13 (h/d), mean (SD), parent-reported	2.8 (1.1)
Satisfaction with family relationship child age 11, mean (SD), parent-reported	79.8 (12.4)
Satisfaction with family relationship child age 13, mean (SD), parent-reported	78.5 (13.2)
Satisfaction with friendship relationship child age 11, mean (SD), parent-reported	77.2 (13.2)
Satisfaction with friendship relationship child age 13, mean (SD), parent-reported	76.7 (14.1)

¹ total n may differ because of missing values for some variables

Table S2. Determinants of parent-reported self-esteem in boys (n = 246), all variables are parent-reported.¹

	Self-esteem ₁₁			Self-esteem ₁₃			Self-esteem ₁₃₋₁₁		
	b	p	R ²	b	p	R ²	b	p	R ²
Model 1: crude									
Watching TV ₁₁ (h/d)	-0.32	0.79	0.00	1.31	0.29	0.00	1.62	0.21	0.01
Model 2: crude									
Other screen time ₁₁ (h/d)	-1.61	0.31	0.00	-0.60	0.72	0.00	1.01	0.57	0.00
Model 3: mutually adjusted									
Watching TV ₁₁ (h/d)	0.29	0.82	0.00	2.24	0.09	0.00	1.95	0.17	0.00
Other screen time ₁₁ (h/d)	-1.75	0.31		-1.70	0.34		0.05	0.99	
Model 4²									
Watching TV ₁₁ (h/d)	-0.04	0.97	0.19	1.89	0.16	0.05	1.93	0.17	0.06
Other screen time ₁₁ (h/d)	-1.83	0.25		-1.95	0.28		-0.11	0.95	
Model 5³									
Watching TV ₁₁ (h/d)				1.72	0.27		1.88	0.26	
Other screen time ₁₁ (h/d)				-2.76	0.19		-0.23	0.92	
TV ₁₃ -TV ₁₁ (h/d)				-2.29	0.74	0.05	-2.72	0.10	0.11
Other screen time ₁₃ - other screen time ₁₁ (h/d)				-0.34	0.15		0.30	0.78	
Model 6⁴									
Watching TV ₁₁ (h/d)				1.76	0.174				
Other screen time ₁₁ (h/d)				-1.63	0.36				
TV ₁₃ -TV ₁₁ (h/d)				-2.48	0.093	0.20			
Other screen time ₁₃ - other screen time ₁₁ (h/d)				-0.05	0.95				

Abbreviations: b: beta estimates; h/d: hours/day

¹ unstandardized coefficients are presented. The subscript numbers indicate the age of the children (11 or 13 years)

² further adjusted for school type, and satisfaction with family relationship₁₁ or relationship₁₃ depending on the outcome

³ further adjusted for school type, satisfaction with family relationship₁₃, time spent on watching TV₁₃ + other screen time₁₃

⁴ further adjusted for school type, satisfaction with family relationship₁₃, time spent on watching TV₁₃ + other screen time₁₃, and self-esteem₁₁

Table S3. Determinants of parent-reported self-esteem in girls (n = 274), all variables are parent-reported.¹

	Self-esteem ₁₁			Self-esteem ₁₃			Self-esteem ₁₃₋₁₁		
	b	p	R ²	b	p	R ²	b	p	R ²
Model 1: crude									
Watching TV ₁₁ (h/d)	-4.06	<0.001	0.05	-3.95	0.004	0.03	0.00	1.00	0.00
Model 2: crude									
Other screen time ₁₁ (h/d)	-3.64	0.027	0.02	-4.38	0.034	0.02	-0.82	0.70	0.00
Model 3: mutually adjusted									
Watching TV ₁₁ (h/d)	-3.61	0.002	0.05	-3.45	0.015	0.04	0.07	0.96	0.00
Other screen time ₁₁ (h/d)	-2.03	0.25		-2.68	0.21		-0.72	0.75	
Model 4²									
Watching TV ₁₁ (h/d)	-2.65	0.022	0.19	-3.71	0.014	0.05	-1.05	0.50	0.03
Other screen time ₁₁ (h/d)	-2.49	0.14		-2.19	0.32		0.21	0.93	
Model 5³									
Watching TV ₁₁ (h/d)				-2.95	0.095		-0.25	0.89	
Other screen time ₁₁ (h/d)				-3.41	0.14		-0.51	0.83	
TV ₁₃ – TV ₁₁ (h/d)				0.13	0.21	0.07	-0.13	0.94	0.04
Other screen time ₁₃ - other screen time ₁₁ (h/d)				-1.16	0.94		-0.44	0.63	
Model 6⁴									
Watching TV ₁₁ (h/d)				-1.62	0.32				
Other screen time ₁₁ (h/d)				-1.99	0.36				
TV ₁₃ – TV ₁₁ (h/d)				0.00	1.00	0.18			
Other screen time ₁₃ - other screen time ₁₁ (h/d)				-0.80	0.35				

Abbreviations: b: beta estimates; bold letters indicate statistical significance at $p < 0.05$; h/d: hours/day

¹ unstandardized coefficients are presented. The subscript numbers indicate the age of the children (11 or 13 years)

² further adjusted for school type, and satisfaction with family relationship₁₁ or relationship₁₃ depending on the outcome

³ further adjusted for school type, satisfaction with family relationship₁₃, time spent on watching TV₁₃ + other screen time₁₃

⁴ further adjusted for school type, satisfaction with family relationship₁₃, time spent on watching TV₁₃ + other screen time₁₃, and self-esteem₁₁