Supplement Tables

Tab. I: Results of the ANVOA with the 4-part composition predicting internalising problems in children

	Sum Sq	Df	F value	p value	Partial η^2
ilrs	122.6	3	6.07	<0.001	0.021
Sex	0.1	1	0.01	0.924	<0.001
Age	18.4	1	2.73	0.099	0.003
BMI categories	77.5	4	2.88	0.022	0.014
Socoioeconomic status	183.4	2	13.62	<0.001	0.032
Residuals	5635.3	837	—	—	—

Tab. II: Results of the ANVOA with the 4-part composition predicting externalising problems in children

	Sum Sq	Df	F value	p value	Partial η^2
ilrs	16.7	3	0.53	0.665	0.002
Sex	152.1	1	14.39	<0.001	0.017
Age	139.4	1	13.18	<0.001	0.015
BMI categories	129.3	4	3.06	0.016	0.014
Socoioeconomic status	341.9	2	16.17	<0.001	0.037
Residuals	8851.7	837	—	—	—

Tab. III: Results of the ANVOA with the 4-part composition predicting internalising problems in adolescents

	Sum Sq	Df	F value	p value	Partial η^2
ilrs	90.4	3	3.59	0.013	0.016
Sex	252.3	1	30.09	<0.001	0.044
Age	299.1	1	35.66	<0.001	0.051
BMI categories	94.0	4	2.80	0.025	0.017
Socoioeconomic status	114.8	2	6.85	0.001	0.020
Residuals	5543.8	661	—	—	—

Tab. IV: Results of the ANVOA with the 4-part composition predicting externalising problems in adolescents

	Sum Sq	Df	F value	p value	Partial η^2
ilrs	59.4	3	2.25	0.081	0.010
Sex	56.4	1	6.42	0.012	0.010
Age	58.6	1	6.67	0.010	0.010
BMI categories	52.4	4	1.49	0.203	0.009
Socoioeconomic status	51.3	2	2.92	0.055	0.009
Residuals	5807.9	661	—	—	—

Tab. V: Results of the ANVOA with the 11-part composition predicting internalising problems in children

	Sum Sq	Df	F value	p value	Partial η²
ilrs	188.8	10	2.81	0.002	0.033
Sex	1.4	1	0.20	0.653	<0.001
Age	7.1	1	1.06	0.303	0.001
BMI categories	179.5	2	13.38	<0.001	0.031
Socoioeconomic status	70.6	4	2.63	0.033	0.013
Residuals	5569.0	830	—	—	—

Tab. VI: Results of the ANVOA with the 11-part composition predicting externalising problems in children

	Sum Sq	Df	F value	p value	Partial η²
ilrs	170.6	10	1.63	0.094	0.019
Sex	149.9	1	14.30	<0.001	0.017
Age	30.7	1	2.93	0.087	0.004
BMI categories	275.2	2	13.13	<0.001	0.031
Socoioeconomic status	144.1	4	3.44	0.009	0.016
Residuals	8697.8	830	—	—	—

Tab. VII: Results of the ANVOA with the 11-part composition predicting internalising problems in adolescents

	Sum Sq	Df	F value	p value	Partial η²
ilrs	246.8	10	3.00	0.001	0.044
Sex	96.8	1	11.75	<0.001	0.018
Age	33.1	1	4.02	0.045	0.006
BMI categories	55.5	4	1.68	0.152	0.010
Socoioeconomic status	75.8	2	4.60	0.010	0.014
Residuals	5387.4	654	—	—	—

Tab. VIII: Results of the ANVOA with the 11-part composition predicting externalising problems in adolescents

	Sum Sq	Df	F value	p value	Partial η²
ilrs	267.1	10	3.12	<0.001	0.046
Sex	2.2	1	0.25	0.614	<0.001
Age	0.0	1	0.00	0.978	<0.001
BMI categories	55.8	4	1.63	0.166	0.010
Socoioeconomic status	33.5	2	1.96	0.142	0.006
Residuals	5600.1	654	—	—	—