

Supplemental Materials for the Article Entitled “Development of internalizing mental health symptoms from early childhood to late adolescence”

Table S1. Latent Growth Curve Factor Parameters

Intercept loadings	Parameter estimate	Two-tailed p-value
INT1 (age 4 years)	1	.999
INT2 (age 6 years)	1	.999
INT3 (age 8 years)	1	.999
INT4 (age 10 years)	1	.999
INT5 (age 12 years)	1	.999
INT6 (age 14 years)	1	.999
INT7 (age 16 years)	1	.999
Linear slope 1 loadings		
INT1 (age 4 years)	0	.999
INT2 (age 6 years)	2	.999
INT3 (age 8 years)	4	.999
INT4 (age 10 years)	6	.999
INT5 (age 12 years)	6	.999
INT6 (age 14 years)	6	.999
INT7 (age 16 years)	6	.999
Quadratic slope 1 loadings		
INT1 (age 4 years)	0	.999
INT2 (age 6 years)	4	.999
INT3 (age 8 years)	16	.999
INT4 (age 10 years)	36	.999
INT5 (age 12 years)	36	.999
INT6 (age 14 years)	36	.999
INT7 (age 16 years)	36	.999
Linear slope 2 loadings		
INT1 (age 4 years)	0	.999
INT2 (age 6 years)	0	.999
INT3 (age 8 years)	0	.999
INT4 (age 10 years)	0	.999
INT5 (age 12 years)	2	.999
INT6 (age 14 years)	4	.999
INT7 (age 16 years)	6	.999
Quadratic slope 2 loadings		
INT1 (age 4 years)	0	.999
INT2 (age 6 years)	0	.999
INT3 (age 8 years)	0	.999
INT4 (age 10 years)	0	.999
INT5 (age 12 years)	4	.999
INT6 (age 14 years)	16	.999
INT7 (age 16 years)	36	.999
Residual variances (standardised)		
INT1 (age 4 years)	.278 (.071)	.000
INT2 (age 6 years)	.386 (.023)	.000
INT3 (age 8 years)	.305 (.025)	.000
INT4 (age 10 years)	.295 (.036)	.000
INT5 (age 12 years)	.295 (.019)	.000
INT6 (age 14 years)	.317 (.020)	.000
INT7 (age 16 years)	.103 (.064)	.108
R-squared		

INT1 (age 4 years)	.722	.000
INT2 (age 6 years)	.614	.000
INT3 (age 8 years)	.695	.000
INT4 (age 10 years)	.705	.000
INT5 (age 12 years)	.705	.000
INT6 (age 14 years)	.683	.000
INT7 (age 16 years)	.897	.000

Note: .999 means that the parameter was fixed for model identification (standard for piecewise growth curve modelling)

Table S2: Linear regression effects of the control variables on the intercept (i.e., baseline scores), the linear slope 1 (ages 4 to 8), quadratic slope 1 (ages 4 to 8), linear slope 2 (ages 10 to 16), and quadratic slope 2 (ages 10 to 16)

		Beta coef.	S.E.	Beta/S.E.	P-value
I	ON				
	Female	-0.036	0.026	-1.411	0.158
	Income	-0.085	0.027	-3.139	0.002
	Education	-0.059	0.030	-1.973	0.049
	Marital status	-0.109	0.033	-3.287	0.001
	Religious service	0.018	0.025	0.714	0.475
	Number of siblings	-0.062	0.031	-2.037	0.042
S1	ON				
	Female	0.019	0.037	0.505	0.614
	Income	0.069	0.039	1.785	0.074
	Education	0.027	0.045	0.598	0.550
	Marital status	-0.070	0.043	-1.615	0.106
	Religious service	0.014	0.035	0.391	0.696
	Number of siblings	-0.085	0.040	-2.097	0.036
S2	ON				
	Female	-0.039	0.055	-0.703	0.482
	Income	0.012	0.055	0.223	0.823
	Education	-0.039	0.061	-0.647	0.517
	Marital status	-0.002	0.060	-0.029	0.977
	Religious service	0.057	0.050	1.142	0.253
	Number of siblings	0.018	0.057	0.320	0.749
Q1	ON				
	Female	-0.016	0.044	-0.361	0.718
	Income	-0.078	0.043	-1.810	0.070
	Education	-0.063	0.055	-1.143	0.253
	Marital status	0.053	0.052	1.018	0.309
	Religious service	-0.052	0.043	-1.192	0.233
	Number of siblings	0.074	0.048	1.552	0.121
Q2	ON				
	Female	0.140	0.048	2.908	0.004
	Income	-0.019	0.043	-0.447	0.655
	Education	0.039	0.051	0.766	0.443
	Marital status	-0.017	0.050	-0.347	0.728
	Religious service	-0.067	0.043	-1.543	0.123
	Number of siblings	-0.006	0.046	-0.138	0.890

Note: I: Intercept; S1: Linear slope 1; S2: Linear slope 2; Q1: Quadratic slope 1; Q2: Quadratic slope 2; Beta: Standardized regression coefficient; S.E.: Standard error; ON: means regressed on