

S3 Table. Model parameters and variance components.

Models	Model parameters								Standardized variance components						
	a	i	μ	m	f	ct	cs	e	a^2	i^2	$a^2m(1 + \mu) + a^2f(1 + \mu)$	$m^2+f^2+2mf\mu$	ct^2	cs^2	e^2
Internalizing															
cs = 0 (C11)	.50	-.10	.14	.01	-.02	.42		.75	.25	.01	.00	.00	.17		.57
cs = 0 (C17)	.63	.00	.15	.01	-.05	.16		.77	.39	.00	-.02	.00	.03		.59
cs = 0 (C23)	.58	-.21	.18	-.01	.01	-.30*		.73	.33	.05	.00	.00	.09		.53
i = 0 (C11)	-.51		.14	.01	-.03	.42	.00	.75	.26		-.01	.00	.17	.00	.57
i = 0 (C17)	-.62		.15	.01	-.05	.16	.06	.77	.39		-.01	.00	.03	.00	.60
i = 0 (C23)	-.63		.18	-.03	-.01	.29	.00	.73	.40		-.02	.00	.09	.00	.54
cs = 0, o. eq.	.58	-.11	.15	.00	-.03	-.32		.75	.33	.01	-.01	.00	.10		.56
cs = m = f = i = 0, o. eq.	-.56		.15			.34		.75	.32				.12		.57
Externalizing															
cs = 0 (C11)	.48	-.30*	.05	.00	-.03	-.17		.81	.23	.09	-.01	.00	.03		.66
cs = 0 (C17)	.49	-.38	.17	-.01	-.04	.00		.79	.24	.15	-.01	.00	.00		.62
cs = 0 (C23)	.48	-.35	.17	.01	.01	-.10		.80	.23	.12	.01	.00	.01		.63
i = 0 (C11)	-.56		.05	-.04	-.07	.15	.00	.83	.31		-.03	.01	.02	.00	.69
i = 0 (C17)	-.62		.17	-.06	-.09	.00	.00	.81	.38		-.07	.01	.00	.00	.67
i = 0 (C23)	-.60		.17	-.05	-.04	.00	.00	.81	.37		-.04	.00	.00	.00	.66
cs = 0, o. eq.	.50	-.35	.12	-.01	-.03	.00		.80	.25	.12	-.01	.00	.00		.64
cs = m = f = ct = 0 (C11)	.46	-.36	.05					.81	.21	.13					.66
cs = m = f = ct = 0 (C17)	.45	-.42	.17					.79	.20	.18					.62
cs = m = f = ct = 0 (C23)	.50	-.34	.17					.80	.25	.11					.63

C, birth cohort; o. eq: all other parameters were set equal across cohorts; a, additive genetic effects; i, non-additive genetic effects; μ , phenotypic spousal similarity; m, environmental transmission from mother to offspring; f, environmental transmission from father to offspring; ct, twin-specific shared environmental effects; cs, sibling-specific shared environmental effects; e, non-shared environmental effects (including measurement error); **bold**, $p < .001$; * $p < .01$