

Supplemental Information

Why psychopathology research should avoid studying one mental disorder at a time: An intergenerational and developmental evidence base for understanding ‘p’

Caspi, Houts, et al. (2025)

Table of Contents

Table S1. Descriptive statistics for males and females in the assortative mating analysis in nationwide hospital data, Denmark.	3
Table S2. Descriptive statistics for males and females in the assortative mating analysis, Norway.	4
Table S3. Descriptive statistics for parent-offspring associations in nationwide hospital data, Denmark.	5
Figure S1. Mother-offspring associations for mental disorders in nationwide hospital data, Denmark	6
Figure S2. Father-offspring associations for mental disorders in nationwide hospital data, Denmark	7
Table S4. Descriptive statistics for parent-offspring associations in nationwide primary-care data, Norway.	8
Figure S3. Mother-offspring associations for mental disorders in nationwide primary-care data, Norway	9
Figure S4. Father-offspring associations for mental disorders in nationwide primary-care data, Norway	10
Table S5. Assortative mating and parent-offspring resemblance coefficients for the same disorders, for disorders within the same disorder family, and for disorders across different disorder families.	11
Table S6. Age-specific comorbidities observed in the Dunedin Longitudinal Study	11
Table S7. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in nationwide hospital data, Denmark	13
Table S8. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in nationwide primary-care data, Norway	14
Table S9. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in the Dunedin Study, New Zealand	15
Table S10. Model fit statistics testing associations in a 3-generation model of mental disorders in three datasets	16
Panel A: Denmark	17

Panel B. Norway.....	18
Panel C: Dunedin.....	19
Table S11. Sensitivity analysis 1: Including “in-law” and grandparent-to-child correlations in a 3-generation model of mental disorders in three datasets	20
Panel A: Denmark	21
Panel B: Norway.....	22
Panel C: Dunedin.....	23
Table S12. Sensitivity analysis 2: Only including one child per family in a 3-generation model of mental disorders in two datasets	24
Panel A: Denmark, one child per family.....	25
Panel B: Norway, one child per family.....	26
Table S13. Sensitivity analysis 3: Only including one child per family in a 3-generation model of mental disorders that included “in-law” and grandparent-to-child correlations in two datasets	27
Panel A: Denmark, one-child per family with “in-law” and grandparent-to-child correlations.....	28
Panel B: Norway, one-child per family with “in-law” and grandparent-to-child correlations	29

Table S1. Descriptive statistics for males and females in the assortative mating analysis in nationwide hospital data, Denmark. The table shows descriptive statistics for key measures for partnered males and females (born in Denmark between 1960-1970) and randomly assigned partners.

	Focal individual & primary partner (N = 497,910 unique pairs)				Focal individual & random partner (N = 486,297 unique pairs)			
	Males (N = 383,175)		Females (N = 379,438)		Males (N = 373,508)		Females (N = 370,241)	
	N	%	N	%	N	%	N	%
Age (January 1980), Mean (SD)	15.31	4.92	12.97	4.77	15.14	4.93	12.93	4.91
Any diagnosis (1970-2018)	34,588	9.0%	44,833	11.8%	37,347	10.0%	47,542	12.8%
# diagnoses (1970-2018), Mean (SD)	0.16	0.58	0.21	0.67	0.18	0.62	0.23	0.70
<u>Externalizing Disorders</u>								
Substance abuse	13,312	3.5%	7,340	1.9%	15,150	4.1%	8,412	2.3%
Externalizing	1,529	0.4%	1,385	0.4%	1,702	0.5%	1,574	0.4%
<u>Internalizing Disorders</u>								
Neurotic	19,749	5.2%	29,457	7.8%	21,295	5.7%	31,316	8.5%
Other mood	11,732	3.1%	18,295	4.8%	12,504	3.3%	19,252	5.2%
Eating disorder	83	< 0.1%	2,041	0.5%	91	< 0.1%	2,248	0.6%
<u>Thought Disorders</u>								
Schizophrenia	4,440	1.2%	4,983	1.3%	5,077	1.4%	5,398	1.5%
Bipolar	2,168	0.6%	3,023	0.8%	2,209	0.6%	3,249	0.9%
OCD	521	0.1%	1,061	0.3%	566	0.2%	1,117	0.3%
<u>Other disorders</u>								
Personality	6,488	1.7%	10,642	2.8%	7,365	2.0%	11,768	3.2%
Developmental	258	0.1%	206	0.1%	290	0.1%	222	0.1%

Table S2. Descriptive statistics for males and females in the assortative mating analysis, Norway. The table shows descriptive statistics for key measures for partnered males and females (born in Norway between 1975-1985) and randomly assigned partners.

	Focal individual & primary partner (N = 809,822 unique couples)				Focal individual & random partner (N = 705,021 unique couples)			
	Males (N = 793,155)		Females (N = 794,315)		Males (N = 677,882)		Females (N = 705,021)	
	N	%	N	%	N	%	N	%
# partners (2006-2019), Mean (SD)	1.15	0.45	1.15	0.45	1.13	0.45	1.16	0.45
Age (January 2006), Mean (SD)	37.64	10.07	34.99	9.80	38.57	9.76	36.01	8.64
Any diagnosis (2006-2019)	369,914	46.6%	513,887	64.7%	309,037	45.6%	458,195	65.0%
# diagnoses (2006-2019), Mean (SD)	0.93	1.36	1.44	1.55	0.88	1.30	1.44	1.54
<u>Externalizing Disorders</u>								
Substance Abuse	49,616	5.8%	38,341	4.8%	37,994	5.6%	33,705	4.8%
ADHD	12,761	1.6%	13,363	1.7%	9,010	1.3%	11,066	1.6%
<u>Internalizing Disorders</u>								
Depression	150,224	18.9%	258,026	32.5%	122,856	18.1%	228,766	32.4%
Acute Stress Reaction	129,006	16.3%	248,167	31.2%	107,127	15.8%	223,751	31.7%
Anxiety Disorder	71,301	9.0%	129,421	16.3%	56,541	8.3%	113,833	16.1%
Phobia / Compulsive Disorder	16,206	2.0%	26,155	3.1%	12,197	1.8%	22,609	3.2%
Post-Traumatic Stress Disorder	7,795	1.0%	20,870	2.6%	6,136	0.9%	18,032	2.6%
Somatization Disorder	5,102	0.6%	10,289	1.3%	4,164	0.6%	8,899	1.3%
<u>Thought Disorders</u>								
Psychosis	14,467	1.8%	19,165	2.4%	10,718	1.6%	16,833	2.4%
<u>Other Disorders</u>								
Psychological Disorders NOS	107,416	13.5%	198,406	25.0%	88,403	13.0%	177,574	25.2%
Sleep Disturbance	117,568	14.8%	160,389	20.2%	97,754	14.4%	144,239	20.5%
Sexual Concern	41,725	5.3%	2,314	0.3%	35,420	5.2%	1,981	0.3%
Personality Disorder	8,382	1.1%	10,290	1.3%	5,967	0.9%	9,026	1.3%
Suicide / Suicide Attempt	7,428	0.9%	6,849	0.9%	5,430	0.8%	5,832	0.8%

Table S3. Descriptive statistics for parent-offspring associations in nationwide hospital data, Denmark. The table shows percents and means and standard deviations for key measures for offspring who were born in Denmark between 1985-1995 and observed between 1985-2018 and for their parents who were observed between 1970-2018. The table shows a joint measure of parental diagnoses, which took the value of 1 if either parent had received the diagnosis, as well as values for mothers and fathers separately.

	Child w. Parent N = 713,090		Either parent N = 713,090		Mother N = 712,488		Father N = 705,020	
	N	%	N	%	N	%	N	%
Has parent	713,090	100.0%						
Has mom	712,488	99.9%						
Has dad	705,020	98.9%						
Male	365,466	51.3%						
Age in 2018, Mean (SD)	27.72	3.14			56.21	5.45	59.11	6.39
Any diagnosis (birth*-2018)	109,347	15.3%	138,147	19.4%	86,017	12.1%	67,314	9.5%
# diagnoses (birth*-2018), Mean (SD)	0.28	0.77	0.31	0.76	0.21	0.67	0.17	0.59
<u>Externalizing Disorders</u>								
Substance abuse	17,243	2.4%	41,384	5.8%	15,769	2.2%	27,770	3.9%
Externalizing	22,443	3.1%	3,996	0.6%	2,131	0.3%	1,912	0.3%
<u>Internalizing Disorders</u>								
Neurotic	58,154	8.2%	87,906	12.3%	56,937	8.0%	37,451	5.3%
Other mood	32,653	4.6%	58,422	8.2%	36,553	5.1%	24,031	3.4%
Eating disorder	9,728	1.4%	2,352	0.3%	2,272	0.3%	81	<0.1%
<u>Thought Disorders</u>								
Schizophrenia	14,657	2.1%	16,937	2.4%	9,363	1.3%	8,018	1.1%
Bipolar	3,919	0.5%	9,727	1.4%	5,693	0.8%	4,093	0.6%
OCD	7,251	1.0%	2,237	0.3%	1,541	0.2%	699	0.1%
<u>Other Disorders</u>								
Personality	20,994	2.9%	30,919	4.3%	19,254	2.7%	12,665	1.8%
Developmental	10,286	1.4%	387	0.1%	202	<0.1%	186	<0.1%

* Since 1970 for parents (for inpatient treatment), and since 1995 for outpatient treatment for both children and parents

Figure S1. Mother-offspring associations for mental disorders in nationwide hospital data, Denmark (N = 712,488). The heatmap shows the odds ratios between mothers' disorders and the offsprings disorders.

Notes: Light grey cells indicate that the confidence interval included 1. Dark grey cells indicate that there were insufficient observations to calculate associations.

Child Diagnosis	Mother Diagnosis									
	Substance Abuse	Externalizing	Neurotic	Mood Disorders	Eating Disorder	Schizophrenia	Bipolar	OCD	Personality	Developmental
Substance Abuse	4.1	4.8	2.7	2.6	2.3	3.1	3.0	2.6	3.2	2.3
Externalizing	2.8	10.4	2.5	2.4	2.4	2.1	2.2	2.4	3.2	4.2
Neurotic	2.7	3.3	2.6	2.4	2.1	2.5	2.4	2.4	2.9	2.9
Mood Disorders	2.1	2.5	2.1	2.3	2.2	1.9	2.4	2.0	2.4	2.7
Eating Disorder	1.5	1.7	1.5	1.6	2.9	1.5	1.6	2.3	1.7	
Schizophrenia	2.6	2.8	2.3	2.2	2.2	3.7	2.5	2.3	2.8	3.5
Bipolar	2.4	2.8	2.1	2.7	2.0	3.2	8.3	2.8	2.8	
OCD	1.7	1.9	1.8	1.8	2.0	1.8	1.8	4.9	2.0	3.0
Personality	3.0	3.9	2.6	2.3	2.5	2.4	2.2	2.4	3.4	1.5
Developmental	1.4	3.9	1.9	1.8	2.3	2.0	1.8	2.7	2.1	15.9

Figure S2. Father-offspring associations for mental disorders in nationwide hospital data, Denmark (N = 705,020). The heatmap shows the odds ratios between fathers' disorders and the offsprings disorders.

Notes: Light grey cells indicate that the confidence interval included 1. Dark grey cells indicate that there were insufficient observations to calculate associations.

Child Diagnosis	Father Diagnosis									
	Substance Abuse	Externalizing	Neurotic	Mood Disorders	Eating Disorder	Schizophrenia	Bipolar	OCD	Personality	Developmental
Substance Abuse	3.3	3.8	2.3	2.1	3.3	2.9	1.6	1.5	2.9	4.1
Externalizing	2.6	7.9	2.1	1.9		2.1	1.5	1.7	2.6	3.9
Neurotic	2.3	2.7	2.2	2.0	2.0	2.2	1.9	2.0	2.5	3.5
Mood Disorders	1.8	2.2	1.8	2.0		1.8	1.9	1.6	2.0	2.2
Eating Disorder	1.3	1.3	1.3	1.4		1.2	1.3	1.9	1.3	3.7
Schizophrenia	2.4	2.2	2.1	2.0		3.5	2.2	2.5	2.7	4.5
Bipolar	2.3	2.7	1.7	2.2		2.4	5.9		2.4	
OCD	1.6	1.8	1.7	1.6		1.5	1.5	5.8	1.7	
Personality	2.5	3.0	2.2	2.0		2.2	1.7	1.8	2.9	3.1
Developmental	1.3	2.7	1.5	1.5		1.8	1.2	1.5	1.9	17.1

Table S4. Descriptive statistics for parent-offspring associations in nationwide primary-care data, Norway. The table shows means and standard deviations for key measures for offspring who were born in Norway between 2000-2017 and observed between 2006-2019 and for their parents who were observed between 2006-2019. The table shows a joint measure of parental diagnoses, which took the value of 1 if either parent had received the diagnosis, as well as values for mothers and fathers separately.

	Child N = 818,221		Either Parent N = 818,221		Mother N = 788,781		Father N = 784,952	
	N	%	N	%	N	%	N	%
Male	419,818	51.3%						
Has mother	788,781	96.4%						
Has father	784,952	95.9%						
Age in December 2019	12.06	4.29			42.98	6.53	45.87	7.32
Any diagnosis (2006-2019)	209,517	25.6%	626,628	76.6%	521,075	66.1%	381,968	48.7%
# diagnoses (2006-2019)	0.40	0.83			1.49	1.56	1.00	1.42
<u>Externalizing Disorders</u>								
Substance Abuse	5,269	0.6%	68,285	8.4%	30,037	3.8%	45,326	5.8%
ADHD	33,178	4.1%	33,651	4.1%	18,406	2.3%	17,364	2.2%
Child / Adolescent Behavior / Symptom Complaint	52,649	6.4%	--	--	--	--	--	--
<u>Internalizing Disorders</u>								
Depression	34,101	4.2%	354,036	43.3%	267,264	33.9%	162,303	20.7%
Acute Stress Reaction	14,180	1.7%	346,363	42.3%	264,767	33.6%	153,787	19.6%
Anxiety Disorder	24,784	3.0%	187,489	22.9%	132,220	16.8%	73,457	9.4%
Phobia / Compulsive Disorder	7,946	1.0%	43,181	5.3%	27,702	3.5%	16,695	2.1%
Post-Traumatic Stress Disorder	2,023	0.3%	36,249	4.4%	25,456	3.2%	12,031	1.5%
Somatization Disorder	2,678	0.3%	18,503	2.3%	12,417	1.6%	6,266	0.8%
<u>Thought Disorders</u>								
Psychosis	1,447	0.2%	30,288	3.7%	17,187	2.2%	13,795	1.8%
<u>Other Disorders</u>								
Psychological Disorders NOS	32,693	4.0%	298,255	36.5%	220,338	27.9%	124,105	15.8%
Sleep Disturbance	44,491	5.4%	222,540	27.2%	137,885	17.5%	110,893	14.1%
Sexual Concern	1,082	0.1%	35,762	4.4%	2,541	0.3%	33,388	4.3%
Personality Disorder	1,153	0.1%	19,982	2.4%	10,514	1.3%	9,953	1.3%
Suicide / Suicide Attempt	2,750	0.3%	14,141	1.7%	6,317	0.8%	8,084	1.0%
Continence Issue	34,627	4.2%	--	--	--	--	--	--
Developmental Delay / Learning Problem	19,492	2.4%	--	--	--	--	--	--
Stammering / Stuttering / Tic	10,087	1.2%	--	--	--	--	--	--

Figure S3. Mother-offspring associations for mental disorders in nationwide primary-care data, Norway (N=788,781). The heatmap shows the odds ratios between mothers' disorders and the offsprings disorders.

Notes: Light grey cells indicate that the confidence interval included 1.

Child Diagnosis		Mother Diagnosis													
		Substance Abuse	ADHD	Depression	Acute Stress Reaction	Anxiety	Phobia / Compulsive Disorder	PTSD	Somatization	Psychosis	NOS	Sleep Disturbance	Sexual Concern	Personality Disorder	Suicide / Suicide Attempt
Child / Adolescent Behavior Symptom / Complaint	Substance Abuse	3.1	2.4	1.9	1.9	1.7	1.4	2.2	1.3	2.5	1.5	1.7	1.3	2.7	2.7
	ADHD	2.7	8.6	2.2	1.7	1.9	1.9	2.2	1.6	2.6	1.8	1.8	1.5	3.0	2.6
		2.1	3.2	2.1	1.7	1.8	1.8	2.2	1.8	2.2	1.7	1.7	1.5	2.9	2.5
	Depression	1.9	2.0	2.3	1.8	1.7	1.6	2.1	1.6	2.2	1.6	1.7	1.5	2.3	2.3
	Acute Stress Reaction	2.4	2.2	2.3	3.1	1.9	1.6	2.9	1.8	2.4	1.7	1.9	1.5	2.8	2.9
	Anxiety	1.7	1.8	2.1	1.7	2.1	1.8	1.9	1.7	1.9	1.6	1.7	1.3	2.1	1.7
	Phobia / Compulsive Disorder	1.3	1.7	1.8	1.6	1.7	1.9	1.6	1.5	1.8	1.5	1.5	1.3	1.8	1.6
	PTSD	4.3	2.6	3.0	3.1	2.3	2.1	7.8	2.5	3.8	2.0	2.3	1.3	4.5	5.3
	Somatization	1.6	1.8	1.7	1.6	1.8	1.7	2.2	2.6	1.8	1.5	1.5	1.3	2.3	1.6
	Psychosis	2.3	3.0	2.5	2.3	1.9	1.5	2.6	1.8	4.4	1.9	2.0	1.3	2.7	2.1
	NOS	2.0	2.5	2.1	1.7	1.7	1.6	2.2	1.7	2.4	2.0	1.7	1.5	2.7	2.3
	Sleep Disturbance	2.0	2.7	2.0	1.6	1.8	1.7	2.0	1.7	2.1	1.7	2.3	1.9	2.2	2.1
	Sexual Concern	2.1	2.6	1.9	1.7	1.6	1.7	1.9	1.3	2.4	1.6	1.6	2.0	2.7	3.5
	Personality Disorder	2.6	2.7	2.7	2.1	2.0	2.0	2.5	1.9	3.1	1.8	1.9	1.4	3.8	2.8
	Suicide / Suicide Attempt	2.9	2.8	2.7	2.8	1.9	2.1	2.6	1.8	2.5	1.9	2.0	1.4	3.7	4.4
	Continence Issues	1.2	1.5	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.5	1.4
	Developmental Delay / Learning Problem	1.6	2.0	1.6	1.4	1.4	1.4	1.6	1.5	1.7	1.4	1.4	1.2	1.8	1.6
	Stammering / Stuttering / Tic	1.4	2.2	1.5	1.3	1.5	1.6	1.4	1.6	1.5	1.4	1.4	1.4	1.9	1.4

Figure S4. Father-offspring associations for mental disorders in nationwide primary-care data, Norway (N=784,952). The heatmap shows the odds ratios between fathers' disorders and the offsprings disorders.

Notes: Light grey cells indicate that the confidence interval included 1. Blue text indicates that the odds ratio is < 1.0

Child Diagnosis		Father Diagnosis													
		Substance Abuse	ADHD	Depression	Acute Stress Reaction	Anxiety	Phobia / Compulsive Disorder	PTSD	Somatization	Psychosis	NOS	Sleep Disturbance	Sexual Concern	Personality Disorder	Suicide / Suicide Attempt
Child / Adolescent Behavior Symptom / Complaint	Substance Abuse	2.7	2.6	1.8	1.6	1.7	1.7	1.8	1.2	2.2	1.4	1.6	2.0	2.2	2.8
	ADHD	2.4	6.0	1.9	1.7	1.8	1.8	1.6	1.3	2.1	1.7	1.8	1.6	2.5	2.9
		1.8	2.6	1.7	1.6	1.6	1.6	1.6	1.4	1.9	1.6	1.5	1.5	2.2	2.3
	Depression	1.7	1.7	1.9	1.6	1.5	1.5	1.6	1.2	1.9	1.5	1.6	1.7	1.9	2.3
	Acute Stress Reaction	2.1	1.9	2.2	2.2	1.7	1.5	2.1	1.4	2.3	1.6	1.8	1.9	2.2	3.7
	Anxiety	1.6	1.6	1.7	1.5	1.7	1.6	1.4	1.4	1.8	1.5	1.5	1.6	1.7	1.9
	Phobia / Compulsive Disorder	1.4	1.5	1.6	1.3	1.6	1.7	1.3	1.3	1.8	1.5	1.5	1.4	1.6	1.5
	PTSD	2.8	3.2	2.9	2.6	2.0	1.5	3.7	1.6	2.7	2.2	2.1	2.1	3.2	5.1
	Somatization	1.7	1.7	1.5	1.4	1.4	1.5	1.4	1.6	1.8	1.4	1.5	1.6	1.7	1.7
Psychosis		2.1	2.2	2.2	2.0	2.0	2.0	2.0	1.1	4.1	2.0	1.9	1.6	2.4	2.6
	NOS	1.8	2.1	1.8	1.6	1.6	1.6	1.8	1.4	2.2	1.7	1.6	1.6	2.1	2.2
	Sleep Disturbance	1.7	2.1	1.7	1.5	1.5	1.5	1.5	1.4	1.7	1.5	1.8	1.4	1.6	2.1
	Sexual Concern	1.4	1.2	1.5	1.2	1.4	1.4	1.5	0.9	1.6	1.3	1.4	2.3	2.0	1.5
	Personality Disorder	2.3	2.4	2.1	1.6	1.8	1.5	1.4	1.7	2.6	1.8	1.8	1.8	3.0	3.3
	Suicide / Suicide Attempt	2.6	2.4	2.3	2.3	1.8	1.3	1.9	1.4	2.4	1.7	1.9	2.1	2.3	4.0
	Continence Issues	1.2	1.4	1.2	1.2	1.1	1.1	1.0	1.2	1.2	1.2	1.2	1.1	1.2	1.3
	Developmental Delay / Learning Problem	1.4	1.6	1.4	1.4	1.3	1.4	1.5	1.3	1.6	1.3	1.4	1.4	1.6	1.7
	Stammering / Stuttering / Tic	1.2	1.8	1.3	1.3	1.3	1.4	1.2	1.2	1.4	1.3	1.4	1.4	1.5	1.2

Table S5. Assortative mating and parent-offspring resemblance coefficients for the same disorders, for disorders within the same disorder family, and for disorders across different disorder families. The analysis draws on data presented in Figures 1, 2, 3, and 4. The same-disorder coefficients include all coefficients along the diagonals. The within-family disorder coefficients include all off-diagonal coefficients included within the Externalizing, Internalizing, and Thought disorder boxes. The cross-family disorder coefficients included all other coefficients. Averages across subsets of ORs were calculated via random effects meta-analysis. We present both means and medians.

	Denmark			Norway		
	n	Mean OR	Median OR	n	Mean OR	Median OR
Assortative Mating						
Same Disorder	7	4.33 (2.50, 7.50)	3.93 (3.63, 4.25)	14	2.92 (2.14, 3.99)	2.24 (2.16, 2.33)
Within Family	13	2.50 (1.97, 3.16)	2.27 (1.18, 4.36)	32	1.77 (1.62, 1.95)	1.73 (1.68, 1.78)
Externalizing	2	4.00 (3.16, 5.07)	4.01 (3.41, 4.72)	2	3.82 (2.12 - 6.91)	3.78 (3.62, 3.96)
Internalizing	6	1.82 (1.48, 2.24)	2.02 (1.93, 2.12)	30	1.69 (1.59 - 1.79)	1.67 (1.63, 1.70)
Thought Disorder	5	2.93 (1.89, 4.55)	2.77 (2.00, 3.82)			
Cross Family	66	2.64 (2.41, 2.90)	2.50 (2.05, 3.06)	150	2.06 (1.95, 2.17)	1.94 (1.70, 2.21)
Intergenerational Transmission						
Same Disorder	10	4.57 (2.89, 7.21)	3.61 (3.42, 3.81)	14	3.11 (2.39, 4.04)	2.61 (2.49, 2.73)
Within Family	14	2.15 (1.82, 2.53)	2.20 (2.02, 2.40)	34	1.97 (1.81, 2.14)	1.84 (1.67, 2.04)
Externalizing	2	3.35 (2.11, 5.31)	3.36 (3.12, 3.62)	4	2.44 (1.85 - 3.21)	2.51 (2.36, 2.67)
Internalizing	6	1.87 (1.52, 2.30)	2.03 (1.89, 2.18)	30	1.91 (1.75 - 2.08)	1.81 (1.74, 1.88)
Thought Disorder	6	2.13 (1.70, 2.66)	2.33 (1.83, 2.97)			
Cross Family	76	2.22 (2.11, 2.34)	2.23 (2.01, 2.48)	204	1.87 (1.80, 1.93)	1.81 (1.76, 1.86)

Table S6. Age-specific comorbidities observed in the Dunedin Longitudinal Study. The table shows that Externalizing, Internalizing, and Thought disorders overlapped to a significant degree at all assessment phases.

	Internalizing & Externalizing		Internalizing & Thought Disorder		Externalizing & Thought Disorder	
	OR	95% CI	OR	95% CI	OR	95% CI
Age 11/15	2.66	[1.89, 3.72]				
Age 18	2.02	[1.51, 2.70]	4.80	[2.50, 9.22]	4.59	[2.41, 8.73]
Age 21	1.81	[1.35, 2.41]	10.44	[6.02, 18.10]	3.15	[1.95, 5.07]
Age 26	2.52	[1.89, 3.37]	6.69	[3.52, 12.73]	3.67	[2.09, 6.44]
Age 32	2.18	[1.61, 2.94]	6.67	[3.60, 12.36]	4.04	[2.28, 7.14]
Age 38	2.81	[2.08, 3.81]	5.56	[3.20, 9.66]	2.15	[1.30, 3.58]
Age 45	2.29	[1.67, 3.14]	6.10	[3.40, 10.94]	2.27	[1.30, 3.97]

Table S7. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in nationwide hospital data, Denmark.

	Prevalence			Paternal						Maternal						Fathers			Mothers			Children		
				Grandfathers			Grandmothers			Grandfathers			Grandmothers			N = 625,238			N = 625,238			N = 625,238		
				N = 481,098			N = 524,378			N = 524,186			N = 564,308			N = 625,238			N = 625,238			N = 625,238		
				Age: 55.0 (8.5)			Age: 52 (8.1)			Age: 52.9 (8.5)			Age: 49.8 (7.9)			Age: 26.4 (5.9)			Age: 23.8 (4.9)					
	N	%	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	
Paternal Grandfather																								
Externalizing	14,375	3.0%	--																					
Internalizing	24,502	5.1%	0.68	--																				
Thought Disorders	5,831	1.2%	0.52	0.61	--																			
Paternal Grandmother																								
Externalizing	13,150	2.5%	0.24	0.13	0.11	--																		
Internalizing	48,299	9.2%	0.16	0.14	0.08	0.71	--																	
Thought Disorders	12,183	2.3%	0.08	0.07	0.05	0.51	0.63	--																
Maternal Grandfather																								
Externalizing	18,806	3.6%	0.10	0.06	0.04	0.07	0.05	0.03	--															
Internalizing	28,865	5.5%	0.05	0.03	0.03	0.05	0.02	0.03	0.69	--														
Thought Disorders	7,141	1.4%	0.05	0.04	0.03	0.03	0.02	0.03	0.54	0.62	--													
Maternal Grandmother																								
Externalizing	16,229	2.9%	0.08	0.04	0.05	0.09	0.05	0.02	0.23	0.14	0.10	--												
Internalizing	53,706	9.5%	0.05	0.02	0.03	0.03	0.02	0.00	0.15	0.14	0.09	0.72	--											
Thought Disorders	13,352	2.4%	0.03	0.01	0.01	0.01	0.01	-0.01	0.09	0.08	0.08	0.50	0.64	--										
Father																								
Externalizing	26,701	4.3%	0.24	0.13	0.10	0.23	0.16	0.10	0.13	0.06	0.06	0.12	0.07	0.05	--									
Internalizing	43,848	7.0%	0.18	0.13	0.12	0.16	0.15	0.11	0.09	0.06	0.05	0.08	0.06	0.05	0.74	--								
Thought Disorders	10,039	1.6%	0.15	0.12	0.19	0.15	0.15	0.18	0.08	0.06	0.06	0.07	0.05	0.05	0.66	0.66	--							
Mother																								
Externalizing	15,136	2.4%	0.12	0.05	0.02	0.09	0.06	0.03	0.22	0.15	0.11	0.24	0.17	0.12	0.30	0.18	0.20	--						
Internalizing	64,284	10.3%	0.09	0.05	0.03	0.07	0.05	0.04	0.16	0.15	0.12	0.19	0.17	0.13	0.20	0.21	0.17	0.73	--					
Thought Disorders	12,437	2.0%	0.05	0.01	0.01	0.04	0.02	0.04	0.14	0.13	0.20	0.16	0.15	0.21	0.17	0.14	0.19	0.63	0.70	--				
Children																								
Externalizing	30,847	4.9%	0.12	0.06	0.04	0.09	0.06	0.02	0.13	0.07	0.04	0.11	0.08	0.05	0.25	0.19	0.16	0.29	0.25	0.20	--			
Internalizing	70,224	11.2%	0.08	0.05	0.05	0.07	0.06	0.03	0.09	0.07	0.04	0.09	0.08	0.06	0.19	0.20	0.16	0.22	0.26	0.20	0.59	--		
Thought Disorders	20,834	3.3%	0.07	0.04	0.07	0.07	0.04	0.05	0.07	0.06	0.05	0.06	0.06	0.07	0.16	0.15	0.20	0.17	0.19	0.23	0.59	0.65	--	

Comorbidity
Assortative Mating
Intergenerational Transmission

Note: Grey cells indicate $p > 0.05$.

Table S8. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in nationwide primary-care data, Norway.

	Prevalence			Paternal									Maternal									Father			Mother			Children		
				Grandfather			Grandmother			Grandfather			Grandmother																	
				(N = 588,354)			(N = 644,055)			(N = 607,792)			(N = 654,157)																	
				Age: 59.6 (8.7)			Age: 57.5 (8.8)			Age: 57.4 (8.4)			Age: 55.0 (8.4)																	
N	%	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD								
Paternal Grandfather																														
Externalizing	35,189	6.0%	--																											
Internalizing	129,418	22.0%	0.41	--																										
Thought Disorders	12,389	2.1%	0.30	0.38	--																									
Paternal Grandmother																														
Externalizing	30,849	4.8%	0.26	0.13	0.03	--																								
Internalizing	257,959	40.1%	0.17	0.23	0.11	0.38	--																							
Thought Disorders	15,495	2.4%	0.09	0.10	0.08	0.29	0.34	--																						
Maternal Grandfather																														
Externalizing	40,096	6.6%	0.06	0.04	-0.01	0.09	0.06	0.01	--																					
Internalizing	144,934	23.8%	0.05	0.05	0.00	0.06	0.05	0.02	0.42	--																				
Thought Disorders	12,476	2.1%	0.01	0.01	0.03	0.03	0.01	0.01	0.33	0.41	--																			
Maternal Grandmother																														
Externalizing	35,357	5.4%	0.07	0.06	0.00	0.09	0.06	0.03	0.26	0.15	0.06	--																		
Internalizing	278,764	42.6%	0.05	0.06	0.00	0.06	0.06	0.01	0.18	0.24	0.11	0.40	--																	
Thought Disorders	16,130	2.5%	0.02	0.03	0.01	0.02	0.01	0.00	0.10	0.11	0.10	0.35	0.37	--																
Father																														
Externalizing	52,264	7.4%	0.22	0.17	0.08	0.24	0.20	0.10	0.16	0.12	0.05	0.16	0.13	0.07	--															
Internalizing	252,142	35.8%	0.15	0.18	0.08	0.16	0.20	0.10	0.11	0.11	0.05	0.10	0.11	0.06	0.49	--														
Thought Disorders	11,781	1.7%	0.13	0.15	0.16	0.13	0.17	0.18	0.08	0.07	0.05	0.09	0.06	0.07	0.52	0.55	--													
Mother																														
Externalizing	43,365	6.2%	0.14	0.11	0.03	0.16	0.12	0.06	0.23	0.17	0.08	0.28	0.22	0.12	0.43	0.27	0.24	--												
Internalizing	392,413	55.7%	0.08	0.08	0.02	0.09	0.09	0.03	0.15	0.18	0.10	0.17	0.22	0.11	0.27	0.33	0.22	0.43	--											
Thought Disorders	14,954	2.1%	0.07	0.06	0.03	0.08	0.05	0.04	0.14	0.15	0.16	0.16	0.17	0.21	0.25	0.24	0.18	0.47	0.50	--										
Children																														
Externalizing	68,992	9.8%	0.07	0.05	0.04	0.08	0.05	0.04	0.08	0.07	0.04	0.11	0.08	0.05	0.26	0.20	0.17	0.34	0.25	0.20	--									
Internalizing	61,006	8.7%	0.03	0.02	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.14	0.19	0.15	0.18	0.27	0.17	0.35	--								
Thought Disorders	1,244	0.2%	0.03	0.00	0.09	0.02	0.03	0.07	0.01	0.03	0.09	0.07	0.03	0.06	0.14	0.16	0.21	0.16	0.20	0.21	0.38	0.47	--							

Comorbidity
Assortative Mating
Intergenerational Transmission

Note: Grey cells indicate $p > 0.05$.

Table S9. Descriptive statistics and pairwise polychoric correlations used in testing the 3-generation model in the Dunedin Study, New Zealand.

	Prevalence		Paternal									Maternal									Study Member (N = 984)		
			Grandfather (N = 857)			Grandmother (N = 879)			Grandfather (N = 898)			Grandmother (N = 914)			Father (N = 968)			Mother (N = 981)					
			Age: 70.9 (13.5)			Age: 75.9 (13.0)			Age: 71.6 (12.5)			Age: 75.6 (11.5)			Age: 58.6 (6.8)			Age: 56.1 (5.7)					
			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD			
Paternal Grandfather																							
Externalizing	255	28.8%	--																				
Internalizing	126	15.1%	0.07	--																			
Thought Disorders	29	3.5%	0.12	0.43	--																		
Paternal Grandmother																							
Externalizing	94	10.5%	0.22	0.10	0.22	--																	
Internalizing	280	32.0%	0.01	0.31	0.33	0.28	--																
Thought Disorders	77	8.9%	0.10	0.17	0.12	0.27	0.55	--															
Maternal Grandfather																							
Externalizing	287	31.3%	0.15	-0.02	-0.05	0.05	0.04	0.00	--														
Internalizing	156	17.6%	0.05	0.17	0.13	0.05	0.20	0.15	0.20	--													
Thought Disorders	35	3.9%	-0.10	0.23	0.18	0.15	0.10	-0.06	0.21	0.58	--												
Maternal Grandmother																							
Externalizing	96	10.3%	0.03	0.06	-0.10	0.20	0.16	0.23	0.48	0.10	0.17	--											
Internalizing	395	43.2%	0.09	0.17	0.25	0.17	0.24	0.10	0.22	0.32	0.18	0.44	--										
Thought Disorders	98	10.7%	-0.04	-0.17	-0.11	-0.04	0.11	0.04	0.07	0.08	0.15	0.31	0.51	--									
Father																							
Externalizing	360	37.1%	0.35	0.09	-0.05	0.27	0.11	0.14	0.28	0.10	0.03	0.16	0.05	0.07	--								
Internalizing	345	36.0%	0.16	0.15	-0.07	0.17	0.11	0.14	0.06	0.05	0.08	0.07	0.08	-0.09	0.41	--							
Thought Disorders	74	7.7%	0.13	0.06	0.09	0.04	0.15	0.07	0.08	-0.02	0.16	0.03	0.08	-0.15	0.49	0.64	--						
Mother																							
Externalizing	148	15.1%	0.23	-0.12	-0.08	0.31	-0.08	0.04	0.34	0.05	0.21	0.39	0.12	0.14	0.44	0.19	0.18	--					
Internalizing	569	58.2%	0.20	0.05	-0.02	0.09	0.03	0.06	0.15	0.11	0.12	0.16	0.24	0.11	0.28	0.28	0.22	0.51	--				
Thought Disorders	104	10.6%	0.23	-0.21	-0.21	0.19	-0.09	-0.01	0.28	0.07	0.20	0.20	0.19	0.17	0.28	0.14	0.26	0.61	0.56	--			
Study Member																							
Externalizing	612	62.2%	0.18	-0.05	-0.11	0.24	0.10	0.04	0.21	0.04	-0.05	0.15	0.06	-0.01	0.26	0.12	-0.03	0.19	0.14	0.15	--		
Internalizing	696	70.7%	0.21	0.08	0.08	0.10	0.06	-0.02	0.17	0.02	-0.03	0.04	0.05	-0.05	0.23	0.17	-0.01	0.25	0.32	0.16	0.21	--	
Thought Disorders	173	17.6%	0.13	-0.06	-0.07	0.06	-0.03	-0.01	0.11	-0.03	0.00	0.07	0.08	-0.07	0.12	0.24	0.05	0.26	0.17	0.13	0.33	0.57	--

Comorbidity
Assortative Mating
Intergenerational Transmission

Note: Grey cells indicate p > 0.05.

Table S10. Model fit statistics testing associations in a 3-generation model of mental disorders in three datasets. In each of three data sets, we tested a series of model constraints intended to simplify the models. The table shows each of the models tested and associated model fit statistics.

Panel A: Denmark

Model tested (N = 625,238; pairwise missingness, WLSMV)		χ^2 **	df	RMSEA (90% CI)	CFI	TLI	SRMR	$\Delta \chi^2$ *	df	p-value
No Constraints:										
General structure / Baseline		9821.502	108	0.012 (0.012, 0.012)	0.989	0.979	0.041			
Prevalence:								vs. Baseline		
0a	General structure + Paternal GM Ext = Maternal GM Ext	9972.521	109	0.012 (0.012, 0.012)	0.989	0.979	0.041	153.151	1	< 0.0001
0b	General structure + Paternal GM Int = Maternal GM Int	9860.424	109	0.012 (0.012, 0.012)	0.989	0.979	0.041	39.200	1	< 0.0001
0c	General structure + Paternal GM ThD = Maternal GM ThD	9823.831	109	0.012 (0.012, 0.012)	0.989	0.979	0.041	2.327	1	0.1272
0d	General structure + Paternal GF Ext = Maternal GF Ext	10180.421	109	0.012 (0.012, 0.012)	0.989	0.978	0.041	365.669	1	< 0.0001
0e	General structure + Paternal GF Int = Maternal GF Int	9948.991	109	0.012 (0.012, 0.012)	0.989	0.979	0.041	128.375	1	< 0.0001
0f	General structure + Paternal GF ThD = Maternal GF ThD	9870.065	109	0.012 (0.012, 0.012)	0.989	0.979	0.041	48.658	1	< 0.0001
0g	General structure + Model 0a + Model 0b + Model 0c	10013.772	111	0.012 (0.012, 0.012)	0.989	0.979	0.041	181.980	3	< 0.0001
0h	General structure + Model 0d + Model 0e + Model 0f	10356.473	111	0.012 (0.012, 0.012)	0.988	0.978	0.041	511.444	3	< 0.0001
0	General structure + Model 0g + Model 0h	10548.743	114	0.012 (0.012, 0.012)	0.988	0.978	0.041	691.163	6	< 0.0001
Comorbidity Correlations:								vs. Model 0		
1a	Model 0 + M Comorbidity = F Comorbidity	10691.447	117	0.012 (0.012, 0.012)	0.988	0.979	0.041	139.937	3	< 0.0001
1b	Model 0 + Maternal GM Comorbidity = Paternal GM Comorbidity	10562.225	117	0.012 (0.012, 0.012)	0.988	0.979	0.041	13.251	3	0.0041
1c	Model 0 + Maternal GF Comorbidity = Paternal GF Comorbidity	10566.572	117	0.012 (0.012, 0.012)	0.988	0.979	0.041	17.519	3	0.0006
1d	Model 0 + GM Comorbidity = GF Comorbidity	10702.767	123	0.012 (0.012, 0.012)	0.988	0.980	0.041	151.071	9	< 0.0001
1e	Model 0 + M Comorbidity = F Comorbidity = GM Comorbidity = GF Comorbidity	12480.239	129	0.012 (0.012, 0.013)	0.986	0.977	0.043	1891.295	15	< 0.0001
1	Model 0 + Model 1a + Model 1d	10845.471	126	0.012 (0.011, 0.012)	0.988	0.980	0.041	290.972	12	< 0.0001
Assortative Mating:								vs. Model 1		
2a	Model 1 + M $\rightarrow$ F = F $\rightarrow$ M	10875.520	129	0.012 (0.011, 0.012)	0.988	0.980	0.041	32.710	3	< 0.0001
2b	Model 1 + GM $\rightarrow$ GF = GF $\rightarrow$ GM	10876.493	138	0.011 (0.011, 0.011)	0.988	0.982	0.041	29.438	12	0.0034
2	Model 1 + Model 2a + Model 2b	10906.543	141	0.011 (0.011, 0.011)	0.988	0.982	0.041	58.602	15	< 0.0001
Intergenerational Transmission:								vs. Model 2		
3a	Model 2 + M $\rightarrow$ C = F $\rightarrow$ C	11279.632	150	0.011 (0.011, 0.011)	0.987	0.982	0.042	344.811	9	< 0.0001
3b	Model 2 + GM $\rightarrow$ M = GF $\rightarrow$ M = GM $\rightarrow$ F = GF $\rightarrow$ F	11033.845	168	0.010 (0.010, 0.010)	0.988	0.985	0.042	113.215	27	< 0.0001
3	Model 2 + Model 3a + Model 3b	11406.935	177	0.010 (0.010, 0.010)	0.987	0.985	0.042	441.303	36	< 0.0001
Generational Differences:								vs. Model 3		
4a	Model 3 + Model 2a = Model 2b	12200.645	183	0.010 (0.010, 0.010)	0.986	0.984	0.044	644.581	6	< 0.0001
4	Model 3 + Model 3a = Model 3b	12692.356	186	0.010 (0.010, 0.011)	0.986	0.984	0.044	1037.703	9	< 0.0001
4c	Model 3 + Model 4a + Model 4b	13486.067	192	0.011 (0.01, 0.011)	0.985	0.984	0.045	1673.666	15	< 0.0001

Note: C = Child; M = Mother; F = Father; GM = Grandmother; GF = Grandfather;
Ext = Externalizing; Int = Internalizing; ThD = Thought Disorder

* Difference in scaled chi-square

** Standard Chi-square

Panel B. Norway

Model Tested (N = 704,960; pairwise missingness, WLSMV)	χ^2	df	RMSEA (90% CI)	CFI	TLI	SRMR	$\Delta \chi^2$	df	p-value
No Constraints:									
General Structure / Baseline	35327.863	108	0.022 (0.021, 0.022)	0.938	0.880	0.045			
Prevalence:									
							vs Baseline		
0a General structure + Paternal GM Ext = Maternal GM Ext	35581.586	109	0.021 (0.021, 0.022)	0.938	0.880	0.045	259.430	1	< 0.0001
0b General structure + Paternal GM Int = Maternal GM Int	36206.202	109	0.022 (0.021, 0.022)	0.937	0.878	0.045	911.503	1	< 0.0001
0c General structure + Paternal GM ThD = Maternal GM ThD	35332.765	109	0.021 (0.021, 0.022)	0.938	0.881	0.045	4.902	1	0.0268
0d General structure + Paternal GF Ext = Maternal GF Ext	35520.266	109	0.021 (0.021, 0.022)	0.938	0.881	0.045	194.939	1	< 0.0001
0e General structure + Paternal GF Int = Maternal GF Int	35906.412	109	0.022 (0.021, 0.022)	0.937	0.879	0.045	591.907	1	< 0.0001
0f General structure + Paternal GF ThD = Maternal GF ThD	35331.993	109	0.021 (0.021, 0.022)	0.938	0.881	0.045	4.141	1	0.0419
0g General structure + Model 0a + Model 0b + Model 0c	36464.828	111	0.022 (0.021, 0.022)	0.936	0.880	0.045	1145.952	3	< 0.0001
0h General structure + Model 0d + Model 0e + Model 0f	36102.945	111	0.021 (0.021, 0.022)	0.937	0.881	0.045	771.501	3	< 0.0001
0 General structure + Model 0g + Model 0h	37239.911	114	0.021 (0.021, 0.022)	0.935	0.880	0.045	1909.498	6	< 0.0001
Comorbidity Correlations:									
							vs Model 0		
1a Model 0 + M Comorbidity = F Comorbidity	37654.873	117	0.021 (0.021, 0.022)	0.934	0.882	0.045	414.324	3	< 0.0001
1b Model 0 + Maternal GM Comorbidity = Paternal GM Comorbidity	37352.385	117	0.021 (0.021, 0.021)	0.935	0.883	0.045	110.807	3	< 0.0001
1c Model 0 + Maternal GF Comorbidity = Paternal GF Comorbidity	37284.744	117	0.021 (0.021, 0.021)	0.935	0.883	0.045	44.068	3	< 0.0001
1d Model 0 + GM Comorbidity = GF Comorbidity	37561.053	123	0.021 (0.021, 0.021)	0.934	0.888	0.045	316.558	9	< 0.0001
1e Model 0 + M Comorbidity = F Comorbidity = GM Comorbidity = GF Comorbidity	42691.510	129	0.022 (0.021, 0.022)	0.925	0.879	0.049	5387.079	15	< 0.0001
1 Model 0 + Model 1a + Model 1d	37976.015	126	0.021 (0.020, 0.021)	0.934	0.890	0.045	727.797	12	< 0.0001
Assortative Mating:									
							vs Model 1		
2a Model 1 + M $\rightarrow$ F = F $\rightarrow$ M	37988.363	129	0.020 (0.020, 0.021)	0.934	0.892	0.045	12.709	3	0.0053
2b Model 1 + GM $\rightarrow$ GF = GF $\rightarrow$ GM	38160.930	138	0.020 (0.020, 0.020)	0.933	0.899	0.046	181.078	12	< 0.0001
2 Model 1 + Model 2a + Model 2b	38173.278	141	0.020 (0.019, 0.020)	0.933	0.901	0.046	194.968	15	< 0.0001
Intergenerational Transmission:									
							vs Model 2		
3a Model 2 + M $\rightarrow$ C = F $\rightarrow$ C	39204.752	150	0.019 (0.019, 0.019)	0.932	0.904	0.046	1149.117	9	< 0.0001
3b Model 2 + GM $\rightarrow$ M = GF $\rightarrow$ M = GM $\rightarrow$ F = GF $\rightarrow$ F	38887.873	168	0.018 (0.018, 0.018)	0.932	0.915	0.046	695.596	27	< 0.0001
3 Model 2 + Model 3a + Model 3b	39919.346	177	0.018 (0.018, 0.018)	0.930	0.917	0.047	1750.802	36	< 0.0001
Generational Differences:									
							vs Model 3		
4a Model 3 + Model 2a = Model 2b	46714.661	183	0.019 (0.019, 0.019)	0.919	0.906	0.052	6349.762	6	< 0.0001
4b Model 3 + Model 3a = Model 3b	41193.435	186	0.018 (0.018, 0.018)	0.928	0.919	0.048	1087.389	9	< 0.0001
4c Model 3 + Model 4a + Model 4b	47988.749	192	0.019 (0.019, 0.019)	0.916	0.908	0.053	7094.567	15	< 0.0001

Note: C = Child; M = Mother; F = Father; GM = Grandmother; GF = Grandfather;
Ext = Externalizing; Int = Internalizing; ThD = Thought Disorder

Panel C: Dunedin

Model Tested (N = 987; pairwise missingness, WLSMV)		χ^2	df	RMSEA (90% CI)	CFI	TLI	SRMR	$\Delta \chi^2$	df	p-value
No Constraints:										
General Structure / Baseline		309.637	108	0.044 (0.038, 0.049)	0.900	0.806	0.084			
Prevalence:										
0a	General structure + Paternal GM Ext = Maternal GM Ext	309.653	109	0.043 (0.038, 0.049)	0.901	0.808	0.084	0.017	1	0.897
0b	General structure + Paternal GM Int = Maternal GM Int	333.190	109	0.046 (0.040, 0.051)	0.889	0.786	0.084	27.377	1	0.000
0c	General structure + Paternal GM ThD = Maternal GM ThD	311.400	109	0.043 (0.038, 0.049)	0.900	0.807	0.084	1.786	1	0.181
0d	General structure + Paternal GF Ext = Maternal GF Ext	310.888	109	0.043 (0.038, 0.049)	0.900	0.807	0.084	1.366	1	0.242
0e	General structure + Paternal GF Int = Maternal GF Int	311.627	109	0.043 (0.038, 0.049)	0.900	0.806	0.084	2.144	1	0.143
0f	General structure + Paternal GF ThD = Maternal GF ThD	309.886	109	0.043 (0.038, 0.049)	0.900	0.808	0.084	0.258	1	0.612
0g	General structure + Model 0a + Model 0b + Model 0c	334.968	111	0.045 (0.040, 0.051)	0.889	0.790	0.084	26.775	3	0.000
0h	General structure + Model 0d + Model 0e + Model 0f	313.127	111	0.043 (0.037, 0.049)	0.900	0.810	0.084	3.718	3	0.294
0i	General structure + Model 0g + Model 0h	338.458	114	0.045 (0.039, 0.050)	0.889	0.795	0.084	30.320	6	0.000
0	General structure + Model 0a + Model 0c + Model 0h	314.905	113	0.043 (0.037, 0.048)	0.900	0.814	0.084	5.568	5	0.351
Comorbidity Correlations:										
1a	Model 0 + M Comorbidity = F Comorbidity	320.137	116	0.042 (0.037, 0.048)	0.899	0.817	0.085	5.436	3	0.143
1b	Model 0 + Maternal GM Comorbidity = Paternal GM Comorbidity	318.573	116	0.042 (0.037, 0.048)	0.900	0.818	0.085	3.619	3	0.306
1c	Model 0 + Maternal GF Comorbidity = Paternal GF Comorbidity	319.026	116	0.042 (0.037, 0.048)	0.899	0.818	0.085	4.176	3	0.243
1d	Model 0 + GM Comorbidity = GF Comorbidity	336.836	122	0.042 (0.037, 0.048)	0.893	0.817	0.087	21.658	9	0.010
1e	Model 0 + M Comorbidity = F Comorbidity = GM Comorbidity = GF Comorbidity	389.857	128	0.046 (0.040, 0.051)	0.870	0.787	0.094	72.978	15	0.000
1f	Model 0 + Model 1a + Model 1d	342.068	125	0.042 (0.037, 0.047)	0.892	0.819	0.087	27.122	12	0.007
1	Model 0 + Model 1a + Model 1b + Model 1c	327.927	122	0.041 (0.036, 0.047)	0.898	0.824	0.086	13.159	9	0.156
Assortative Mating:										
2a	Model 1 + M $\rightarrow$ F = F $\rightarrow$ M	331.064	125	0.041 (0.036, 0.046)	0.898	0.828	0.086	3.412	3	0.332
2b	Model 1 + GM $\rightarrow$ GF = GF $\rightarrow$ GM	347.592	134	0.040 (0.035, 0.045)	0.894	0.834	0.088	19.652	12	0.074
2	Model 1 + Model 2a + Model 2b	350.729	137	0.040 (0.035, 0.045)	0.894	0.838	0.089	23.136	15	0.081
Intergenerational Transmission:										
3a	Model 2 + M $\rightarrow$ C = F $\rightarrow$ C	365.129	146	0.039 (0.034, 0.044)	0.891	0.844	0.090	16.385	9	0.059
3b	Model 2 + GM $\rightarrow$ M = GF $\rightarrow$ M = GM $\rightarrow$ F = GF $\rightarrow$ F	370.483	164	0.036 (0.031, 0.041)	0.898	0.869	0.092	21.529	27	0.761
3	Model 2 + Model 3a + Model 3b	384.883	173	0.035 (0.031, 0.040)	0.895	0.872	0.094	36.811	36	0.431
Generational Differences:										
4a	Model 3 + Model 2a = Model 2b	397.148	179	0.035 (0.031, 0.04)	0.892	0.873	0.095	11.183	6	0.083
4b	Model 3 + Model 3a = Model 3b	399.106	182	0.035 (0.03, 0.039)	0.892	0.876	0.095	12.126	9	0.206
4c	Model 3 + Model 4a + Model 4b	411.371	188	0.035 (0.03, 0.039)	0.889	0.876	0.096	22.965	15	0.085

Note: C = Child; M = Mother; F = Father; GM = Grandmother; GF = Grandfather;
Ext = Externalizing; Int = Internalizing; ThD = Thought Disorder

Table S11. Sensitivity analysis 1: Including “in-law” and grandparent-to-child correlations in a 3-generation model of mental disorders in three datasets. In a sensitivity analysis, we tested the final models specified in **Table S10** but allowed the “in-law” and grandparent-to-child correlations to be freely estimated rather than constraining them to be zero. The table shows results of each tested model and associated model fit statistics. The results show that the within-person correlations, assortative mating correlations and intergenerational transmission correlations were practically unchanged across the two specifications, although the model-fit statistics were improved by freely estimating the “in-law” and grandparent-to-child coefficients rather than constraining them to zero.

Panel A: Denmark

	Paternal						Maternal						Fathers			Mothers			Children		
	Grandfathers			Grandmothers			Grandfathers			Grandmothers											
	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.70	--																			
Thought Disorders	0.52	0.63	--																		
Paternal Grandmother																					
Externalizing	0.23	0.15	0.09	--																	
Internalizing	0.15	0.14	0.08	0.70	--																
Thought Disorders	0.09	0.08	0.07	0.52	0.63	--															
Maternal Grandfather																					
Externalizing	0.10	0.06	0.04	0.07	0.05	0.03	--														
Internalizing	0.05	0.03	0.03	0.05	0.02	0.03	0.70	--													
Thought Disorders	0.05	0.04	0.03	0.03	0.02	0.03	0.52	0.63	--												
Maternal Grandmother																					
Externalizing	0.08	0.04	0.05	0.09	0.05	0.02	0.23	0.15	0.09	--											
Internalizing	0.05	0.02	0.03	0.03	0.02	0.00	0.15	0.14	0.08	0.70	--										
Thought Disorders	0.03	0.01	0.01	0.01	0.01	-0.01	0.09	0.08	0.07	0.52	0.63	--									
Father																					
Externalizing	0.25	0.19	0.14	0.25	0.19	0.14	0.13	0.06	0.06	0.12	0.07	0.05	--								
Internalizing	0.19	0.19	0.15	0.19	0.19	0.15	0.09	0.06	0.05	0.08	0.06	0.05	0.74	--							
Thought Disorders	0.16	0.16	0.21	0.16	0.16	0.21	0.08	0.06	0.06	0.07	0.05	0.05	0.65	0.68	--						
Mother																					
Externalizing	0.12	0.05	0.02	0.09	0.06	0.03	0.25	0.19	0.14	0.25	0.19	0.14	0.30	0.19	0.18	--					
Internalizing	0.09	0.05	0.03	0.07	0.05	0.04	0.19	0.19	0.15	0.19	0.19	0.15	0.19	0.21	0.15	0.74	--				
Thought Disorders	0.05	0.01	0.01	0.04	0.02	0.04	0.16	0.16	0.21	0.16	0.16	0.21	0.18	0.15	0.19	0.65	0.68	--			
Children																					
Externalizing	0.12	0.06	0.04	0.09	0.06	0.02	0.13	0.07	0.04	0.11	0.08	0.05	0.25	0.19	0.14	0.25	0.19	0.14	--		
Internalizing	0.08	0.05	0.05	0.07	0.06	0.03	0.09	0.07	0.04	0.09	0.08	0.06	0.19	0.19	0.15	0.19	0.19	0.15	0.59	--	
Thought Disorders	0.07	0.04	0.07	0.07	0.04	0.05	0.07	0.06	0.05	0.06	0.06	0.07	0.16	0.16	0.21	0.16	0.16	0.21	0.59	0.65	--

Comorbidity
Assortative Mating
Intergenerational Transmission

Note: Greyed cells indicate $p > 0.05$.

χ^2 (N = 625,238, 78) = 2,870.854, RMSEA (90% CI) = 0.008 (0.007, 0.008), CFI = 0.997, TLI = 0.992

Panel B: Norway

	Paternal						Maternal						Father			Mother			Children		
	Grandfather			Grandmother			Grandfather			Grandmother			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.40	--																			
Thought Disorders	0.32	0.37	--																		
Paternal Grandmother																					
Externalizing	0.26	0.16	0.08	--																	
Internalizing	0.16	0.23	0.11	0.40	--																
Thought Disorders	0.08	0.11	0.09	0.32	0.37	--															
Maternal Grandfather																					
Externalizing	0.06	0.04	-0.01	0.09	0.06	0.01	--														
Internalizing	0.05	0.05	0.00	0.06	0.05	0.02	0.40	--													
Thought Disorders	0.01	0.01	0.03	0.03	0.01	0.01	0.32	0.37	--												
Maternal Grandmother																					
Externalizing	0.07	0.06	0.00	0.09	0.06	0.03	0.26	0.16	0.08	--											
Internalizing	0.05	0.06	0.00	0.06	0.06	0.01	0.16	0.23	0.11	0.40	--										
Thought Disorders	0.02	0.03	0.01	0.02	0.01	0.00	0.08	0.11	0.09	0.32	0.37	--									
Father																					
Externalizing	0.27	0.20	0.13	0.27	0.20	0.13	0.16	0.12	0.05	0.16	0.13	0.07	--								
Internalizing	0.16	0.21	0.11	0.16	0.21	0.11	0.11	0.11	0.05	0.10	0.11	0.06	0.47	--							
Thought Disorders	0.15	0.16	0.18	0.15	0.16	0.18	0.08	0.07	0.05	0.09	0.06	0.07	0.50	0.53	--						
Mother																					
Externalizing	0.14	0.11	0.03	0.16	0.12	0.06	0.27	0.20	0.13	0.27	0.20	0.13	0.43	0.27	0.24	--					
Internalizing	0.08	0.08	0.02	0.09	0.09	0.03	0.16	0.21	0.11	0.16	0.21	0.11	0.27	0.33	0.23	0.47	--				
Thought Disorders	0.07	0.06	0.03	0.08	0.05	0.04	0.15	0.16	0.18	0.15	0.16	0.18	0.24	0.23	0.18	0.50	0.53	--			
Children																					
Externalizing	0.07	0.05	0.04	0.08	0.05	0.04	0.08	0.07	0.04	0.11	0.08	0.05	0.27	0.20	0.13	0.27	0.20	0.13	--		
Internalizing	0.03	0.02	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.16	0.21	0.11	0.16	0.21	0.11	0.35	--	
Thought Disorders	0.03	0.00	0.09	0.02	0.03	0.07	0.01	0.03	0.09	0.07	0.03	0.06	0.15	0.16	0.18	0.15	0.16	0.18	0.38	0.47	--

Note: Greyed cells indicate $p > 0.05$.

χ^2 (N = 704,960, 78) = 5,865.572, RMSEA (90% CI) = 0.010 (0.010, 0.010), CFI = 0.990, TLI = 0.972

Panel C: Dunedin

	Paternal						Maternal						Father			Mother			Children		
	Grandfather		ThD	Grandmother			Grandfather		ThD	Grandmother			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
	Ext	Int		Ext	Int	ThD	Ext	Int		Ext	Int	ThD									
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.14	--																			
Thought Disorders	0.17	0.52	--																		
Paternal Grandmother																					
Externalizing	0.40	0.17	0.17	--																	
Internalizing	0.17	0.30	0.18	0.37	--																
Thought Disorders	0.17	0.18	0.20	0.29	0.53	--															
Maternal Grandfather																					
Externalizing	0.15	-0.02	-0.04	0.05	0.04	0.00	--														
Internalizing	0.05	0.17	0.13	0.05	0.20	0.15	0.14	--													
Thought Disorders	-0.10	0.23	0.18	0.15	0.10	-0.06	0.17	0.52	--												
Maternal Grandmother																					
Externalizing	0.03	0.06	-0.10	0.20	0.16	0.23	0.40	0.17	0.17	--											
Internalizing	0.09	0.17	0.25	0.16	0.24	0.10	0.17	0.30	0.18	0.37	--										
Thought Disorders	-0.04	-0.17	-0.11	-0.04	0.11	0.04	0.17	0.18	0.20	0.29	0.53	--									
Father																					
Externalizing	0.30	0.11	0.10	0.30	0.11	0.10	0.28	0.10	0.03	0.16	0.05	0.07	--								
Internalizing	0.19	0.19	0.09	0.19	0.19	0.09	0.06	0.05	0.08	0.07	0.08	-0.09	0.46	--							
Thought Disorders	0.18	0.16	0.12	0.18	0.16	0.12	0.08	-0.01	0.16	0.03	0.08	-0.15	0.56	0.60	--						
Mother																					
Externalizing	0.23	-0.12	-0.08	0.31	-0.08	0.04	0.30	0.11	0.10	0.30	0.11	0.10	0.40	0.17	0.17	--					
Internalizing	0.20	0.05	-0.02	0.09	0.03	0.06	0.19	0.19	0.09	0.19	0.19	0.09	0.17	0.30	0.18	0.46	--				
Thought Disorders	0.23	-0.21	-0.21	0.19	-0.09	-0.01	0.18	0.16	0.12	0.18	0.16	0.12	0.17	0.18	0.20	0.56	0.60	--			
Children																					
Externalizing	0.18	-0.05	-0.11	0.24	0.10	0.04	0.21	0.04	-0.05	0.15	0.06	-0.01	0.30	0.11	0.10	0.30	0.11	0.10	--		
Internalizing	0.21	0.08	0.08	0.10	0.06	-0.02	0.17	0.02	-0.03	0.04	0.05	-0.05	0.19	0.19	0.09	0.19	0.19	0.09	0.21	--	
Thought Disorders	0.13	-0.06	-0.07	0.06	-0.03	-0.01	0.11	-0.03	0.00	0.07	0.07	-0.07	0.18	0.16	0.12	0.18	0.16	0.12	0.33	0.57	--

Comorbidity

Assortative Mating

Intergenerational Transmission

Note: Greyed cells indicate $p > 0.05$.

χ^2 (N = 987, 80) = 101.734, RMSEA (90% CI) = 0.017 (0.000, 0.026), CFI = 0.989, TLI = 0.972

Table S12. Sensitivity analysis 2: Only including one child per family in a 3-generation model of mental disorders in two datasets.

In a sensitivity analysis designed to determine the impact of nesting of children within families in Norway and Denmark, we tested the final model specified in **Table S10**, but randomly chose one child per family for inclusion. The table shows results of each tested model and associated model fit statistics. The results show that the within-person correlations, assortative mating correlations and intergenerational transmission correlations were practically unchanged across the two specifications.

Panel A: Denmark, one child per family

	Paternal						Maternal						Fathers			Mothers			Children		
	Grandfathers			Grandmothers			Grandfathers			Grandmothers			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	-																				
Internalizing	0.70	-																			
Thought Disorders	0.52	0.63	-																		
Paternal Grandmother																					
Externalizing	0.23	0.15	0.10	-																	
Internalizing	0.15	0.14	0.08	0.70	-																
Thought Disorders	0.10	0.08	0.07	0.52	0.63	-															
Maternal Grandfather																					
Externalizing							-														
Internalizing							0.70	-													
Thought Disorders							0.52	0.63	-												
Maternal Grandmother																					
Externalizing							0.23	0.15	0.10	-											
Internalizing							0.15	0.14	0.08	0.70	-										
Thought Disorders							0.10	0.08	0.07	0.52	0.63	-									
Father																					
Externalizing													-								
Internalizing													0.74	-							
Thought Disorders													0.65	0.68	-						
Mother																					
Externalizing							0.25	0.19	0.14	0.25	0.19	0.14	0.30	0.19	0.19	-					
Internalizing							0.19	0.19	0.15	0.19	0.19	0.15	0.19	0.20	0.15	0.74	-				
Thought Disorders							0.16	0.16	0.21	0.16	0.16	0.21	0.19	0.15	0.20	0.65	0.68	-			
Children																					
Externalizing													0.25	0.19	0.14	0.25	0.19	0.14	-		
Internalizing													0.19	0.19	0.15	0.19	0.19	0.15	0.59	-	
Thought Disorders													0.16	0.16	0.21	0.16	0.16	0.21	0.59	0.65	-

Comorbidity

Assortative Mating

Intergenerational Transmission

χ^2 (N = 415,029, 186) = 8,921.463, RMSEA (90% CI) = 0.011 (0.011, 0.011), CFI = 0.986, TLI = 0.984

Panel B: Norway, one child per family

	Paternal						Maternal						Father			Mother			Children		
	Grandfather	Grandmother			Grandfather	Grandmother			Grandfather	Grandmother			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.41	--																			
Thought Disorders	0.32	0.37	--																		
Paternal Grandmother																					
Externalizing	0.26	0.16	0.08	--																	
Internalizing	0.16	0.24	0.10	0.41	--																
Thought Disorders	0.08	0.10	0.09	0.32	0.37	--															
Maternal Grandfather																					
Externalizing					--																
Internalizing					0.41	--															
Thought Disorders					0.32	0.37	--														
Maternal Grandmother																					
Externalizing					0.26	0.16	0.08	--													
Internalizing					0.16	0.24	0.10	0.41	--												
Thought Disorders					0.08	0.10	0.09	0.32	0.37	--											
Father																					
Externalizing													--								
Internalizing													0.48	--							
Thought Disorders													0.50	0.53	--						
Mother																					
Externalizing													0.27	0.21	0.13	--					
Internalizing													0.16	0.21	0.12	0.48	--				
Thought Disorders													0.15	0.16	0.18	0.25	0.53	--			
Children																					
Externalizing																0.27	0.21	0.13	--		
Internalizing																0.16	0.21	0.12	0.35	--	
Thought Disorders																0.15	0.16	0.18	0.37	0.47	--

Comorbidity

Assortative Mating

Intergenerational Transmission

χ^2 (N = 432,083, 186) = 28,285.897, RMSEA (90% CI) = 0.019 (0.019, 0.019), CFI = 0.926, TLI = 0.917

Table S13. Sensitivity analysis 3: Only including one child per family in a 3-generation model of mental disorders that included “in-law” and grandparent-to-child correlations in two datasets. In a sensitivity analysis designed to determine the impact of nesting of children within families in Norway and Denmark, we tested the final model specified in **Table S11**, but randomly chose one child per family for inclusion. The table shows results of each tested model and associated model fit statistics. The results show that the within-person correlations, assortative mating correlations and intergenerational transmission correlations were practically unchanged across the two specifications.

Panel A: Denmark, one-child per family with “in-law” and grandparent-to-child correlations

	Paternal						Maternal						Fathers			Mothers			Children		
	Grandfathers			Grandmothers			Grandfathers			Grandmothers			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.70	--																			
Thought Disorders	0.52	0.63	--																		
Paternal Grandmother																					
Externalizing	0.23	0.15	0.10	--																	
Internalizing	0.15	0.14	0.08	0.70	--																
Thought Disorders	0.10	0.08	0.07	0.52	0.63	--															
Maternal Grandfather																					
Externalizing	0.10	0.06	0.04	0.08	0.05	0.03	--														
Internalizing	0.05	0.04	0.03	0.05	0.03	0.02	0.70	--													
Thought Disorders	0.05	0.04	0.04	0.03	0.02	0.04	0.52	0.63	--												
Maternal Grandmother																					
Externalizing	0.08	0.04	0.04	0.08	0.04	0.01	0.23	0.15	0.10	--											
Internalizing	0.05	0.02	0.02	0.03	0.02	0.00	0.15	0.14	0.08	0.70	--										
Thought Disorders	0.02	0.01	0.01	0.02	0.01	0.00	0.10	0.08	0.07	0.52	0.63	--									
Father																					
Externalizing	0.25	0.19	0.14	0.25	0.19	0.14	0.13	0.07	0.06	0.12	0.07	0.06	--								
Internalizing	0.19	0.19	0.15	0.19	0.19	0.15	0.08	0.06	0.05	0.08	0.06	0.05	0.74	--							
Thought Disorders	0.16	0.16	0.21	0.16	0.16	0.21	0.08	0.05	0.06	0.07	0.05	0.05	0.65	0.68	--						
Mother																					
Externalizing	0.12	0.06	0.03	0.09	0.06	0.04	0.25	0.19	0.14	0.25	0.19	0.14	0.30	0.19	0.19	--					
Internalizing	0.09	0.05	0.03	0.07	0.05	0.04	0.19	0.19	0.15	0.19	0.19	0.15	0.19	0.20	0.15	0.74	--				
Thought Disorders	0.05	0.02	0.01	0.04	0.03	0.05	0.16	0.16	0.21	0.16	0.16	0.21	0.19	0.15	0.20	0.65	0.68	--			
Children																					
Externalizing	0.12	0.06	0.05	0.10	0.06	0.02	0.12	0.07	0.04	0.10	0.08	0.05	0.25	0.19	0.14	0.25	0.19	0.14	--		
Internalizing	0.09	0.05	0.06	0.07	0.07	0.03	0.09	0.07	0.04	0.09	0.08	0.05	0.19	0.19	0.15	0.19	0.19	0.15	0.59	--	
Thought Disorders	0.07	0.05	0.07	0.08	0.05	0.05	0.06	0.05	0.04	0.07	0.07	0.07	0.16	0.16	0.21	0.16	0.16	0.21	0.59	0.65	--

Comorbidity

Assortative Mating

Intergenerational Transmission

Note: Greyed cells indicate $p > 0.05$.

χ^2 (N = 415,029, 78) = 1,918.084, RMSEA (90% CI) = 0.008 (0.007, 0.008), CFI = 0.997, TLI = 0.992

Panel B: Norway, one-child per family with “in-law” and grandparent-to-child correlations

	Paternal						Maternal						Father			Mother			Children		
	Grandfather			Grandmother			Grandfather			Grandmother			Ext	Int	ThD	Ext	Int	ThD	Ext	Int	ThD
Paternal Grandfather																					
Externalizing	--																				
Internalizing	0.41	--																			
Thought Disorders	0.32	0.37	--																		
Paternal Grandmother																					
Externalizing	0.26	0.16	0.08	--																	
Internalizing	0.16	0.24	0.10	0.41	--																
Thought Disorders	0.08	0.10	0.09	0.32	0.37	--															
Maternal Grandfather																					
Externalizing	0.07	0.04	0.00	0.09	0.06	0.01	--														
Internalizing	0.05	0.05	0.00	0.06	0.06	0.02	0.41	--													
Thought Disorders	0.01	0.01	0.02	0.03	0.01	0.01	0.32	0.37	--												
Maternal Grandmother																					
Externalizing	0.07	0.06	0.00	0.10	0.07	0.03	0.26	0.16	0.08	--											
Internalizing	0.05	0.06	-0.01	0.07	0.07	0.01	0.16	0.24	0.10	0.41	--										
Thought Disorders	0.02	0.02	0.01	0.03	0.01	0.00	0.08	0.10	0.09	0.32	0.37	--									
Father																					
Externalizing	0.27	0.21	0.13	0.27	0.21	0.13	0.16	0.12	0.05	0.16	0.14	0.08	--								
Internalizing	0.16	0.21	0.12	0.16	0.21	0.12	0.11	0.11	0.05	0.11	0.12	0.06	0.48	--							
Thought Disorders	0.15	0.16	0.18	0.15	0.16	0.18	0.08	0.07	0.04	0.09	0.07	0.07	0.50	0.53	--						
Mother																					
Externalizing	0.14	0.11	0.03	0.16	0.12	0.05	0.27	0.21	0.13	0.27	0.21	0.13	0.43	0.27	0.25	--					
Internalizing	0.09	0.08	0.02	0.09	0.09	0.04	0.16	0.21	0.12	0.16	0.21	0.12	0.27	0.32	0.23	0.48	--				
Thought Disorders	0.07	0.06	0.02	0.08	0.06	0.04	0.15	0.16	0.18	0.15	0.16	0.18	0.25	0.23	0.19	0.50	0.53	--			
Children																					
Externalizing	0.07	0.05	0.04	0.08	0.06	0.04	0.09	0.06	0.05	0.11	0.09	0.05	0.27	0.21	0.13	0.27	0.21	0.13	--		
Internalizing	0.02	0.02	0.03	0.03	0.02	0.03	0.03	0.03	0.05	0.05	0.04	0.05	0.16	0.21	0.12	0.16	0.21	0.12	0.35	--	
Thought Disorders	0.02	0.00	0.07	0.01	0.03	0.07	0.01	0.02	0.10	0.06	0.02	0.06	0.15	0.16	0.18	0.15	0.16	0.18	0.37	0.47	--

Comorbidity
Assortative Mating
Intergenerational Transmission

Note: Greyed cells indicate $p > 0.05$.

χ^2 (N = 432,083, 78) = 3,838.735, RMSEA (90% CI) = 0.011 (0.010, 0.011), CFI = 0.990, TLI = 0.973