

Table 1 Descriptive statistics for study variables and tests for sex and age effects.

	Whole sample	Males	Females	Min-Max	Regression coefficients (CIs)	
	Mean (SD) (n=1564)	Mean (SD) (n=649)	Mean (SD) (n=915)		Sex	Age
Panic/agoraphobia	1.39(2.23)	1.11(1.93)	1.58(2.39)	0-18	.21 (.11,.31)*	-.03 (-.07,.01)
Separation anxiety symptoms	2.72(1.42)	2.35(1.18)	2.97(1.51)	0-9	.43 (.33,.54)*	-.01 (-.06,.03)
Social anxiety	4.38(2.69)	3.68(2.47)	4.84(2.73)	0-12	.43 (.32,.53)*	-.02 (-.03,.06)
Physical injury fears	3.03(2.51)	2.10(2.03)	3.64(2.61)	0-15	.61 (.51,.71)*	-.01 (-.07,.02)
Obsessive-compulsive symptoms	3.06(2.93)	3.05(2.90)	3.07(2.94)	0-18	.01 (-.01,.11)	-.01 (-.05,.02)
Generalised anxiety symptoms	4.87(2.91)	4.12(2.73)	5.36(2.92)	0-18	.42 (.32,.53)*	.00 (-.04,.04)
Attention problems	2.98(2.19)	2.93(2.21)	3.01(2.17)	0-12	.04 (-.07,.14)	.00 (-.05,.04)
Hyperactivity/impulsivity	1.91(1.56)	1.67(1.46)	2.06(1.61)	0-6	.25 (.15,.36)*	-.02 (-.06,.02)

Note: means and standard deviations are on raw (non-regressed) data to be maximally relevant to the reader.

Sex and age effects were evaluated with linear regression models on standardised values using the cluster command to account for the non-independence of observations (e.g., twin/sibling pairs).

** Effect of sex at $p < .001$ level of significance representing higher scores in females (males=0, females=1).*

Table 2 Full correlations between the two ADHD dimensions and anxiety subtypes, alongside partial correlations controlling for one ADHD dimension at a time (95% confidence intervals).

	Full correlations		Partial correlations	
	AP	HYP	AP (control HYP) ¹	HYP (control AP) ²
Panic/agoraphobia	.39 (.35,.44)	.16 (.12,.22)	.34 (.30,.39)	.04 (-.02,.09)
Separation anxiety symptoms	-.05 (-.10,0)	.02 (-.03,.07)	-.05 (-.10,0)	.02 (-.03,.07)
Social anxiety	.33 (.28,.38)	-.04 (-.09,.01)	.36 (.31,.40)	-.19 (-.24,-.14)
Physical injury fears	.20 (.15,.25)	.09 (.04,.15)	.19 (.13,.24)	.03 (-.02,.08)
Obsessive-compulsive symptoms	.41 (.36,.45)	.17 (.12,.22)	.34 (.29,.38)	.06 (.01,.11)
Generalised anxiety symptoms	.39 (.35,.44)	.17 (.12,.22)	.35 (.31,.39)	.03 (-.03,.08)
Attention problems	1	.32 (.27,.36)	1	-
Hyperactivity/impulsivity		1	-	1

AP – Attention problems, HYP – Hyperactivity/impulsivity

¹ *partial correlation between attention problems and anxiety subtypes controlling for hyperactivity/impulsivity problems*

² *partial correlation between hyperactivity/impulsivity problems and anxiety subtypes controlling for attention problems.*

Table 3. Twin correlations (95% confidence intervals) for study variables by zygosity.

	MZm	MZf	DZm/MMsibs	DZf/FFsibs	DZo/OSsibs
Panic/agoraphobia	.53 (.35,.67)	.32 (.15,.47)	.12 (-.10,.31)	.18 (.03,.32)	.03 (-.10,.16)
Social Anxiety	.43 (.24,.59)	.34 (.17,.48)	.37 (.18,.54)	.24 (.09,.38)	.09 (-.04,.21)
Physical Injury Fears	.21 (.01,.41)	.41 (.25,.54)	.15 (-.05,.34)	.17 (.02,.31)	.07 (-.06,.19)
Obsessive-compulsive Symptoms	.36 (.16,.53)	.45 (.30,.58)	.21 (-.01,.41)	.08 (-.08,.23)	.16 (.04,.28)
Generalised Anxiety Symptoms	.41 (.21,.57)	.48 (.33,.60)	.11 (-.11,.31)	.24 (.08,.39)	.10 (-.03,.23)
Attention Problems	.39 (.16,.60)	.44 (.28,.57)	.14 (-0.08,.34)	.22 (.06,.36)	.26 (.13,.38)

MZm – Monozygotic male, MZf – Monozygotic female, DZm/MMsibs – Dizygotic male and male siblings, DZf/FFsibs – Dizygotic female and female siblings, DZo/OSsibs – Dizygotic opposite-sex and opposite-sex siblings.

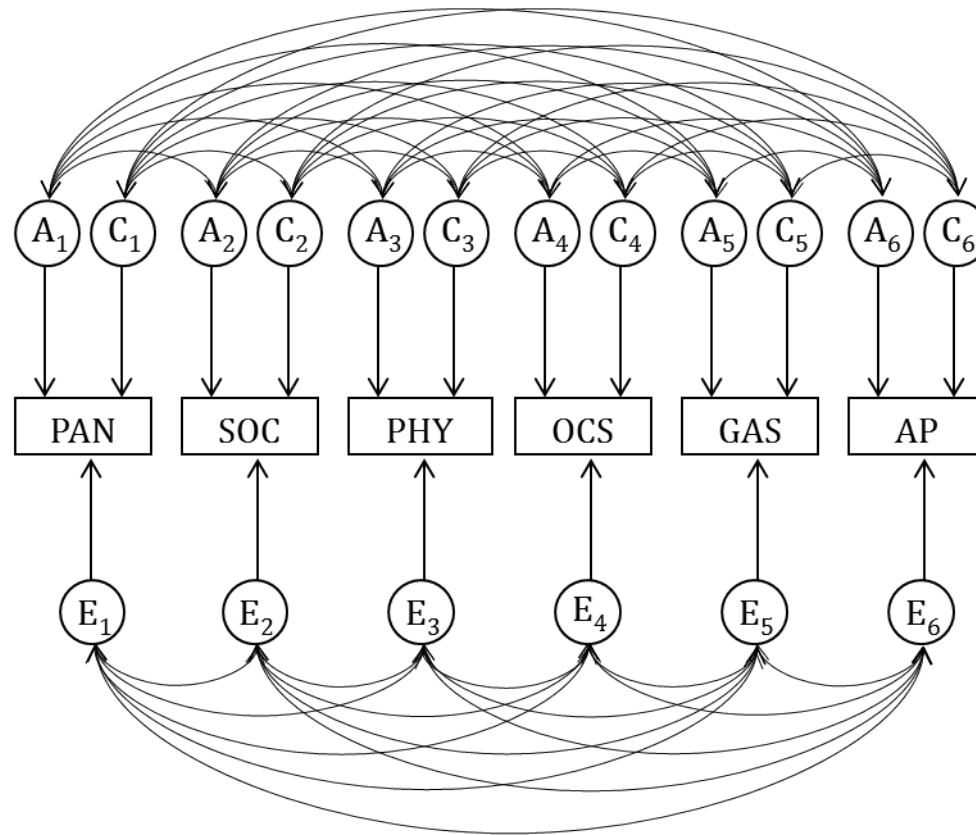
Table 4. Parameter estimates (95% confidence intervals) from multivariate modelling: genetic and non-shared environmental influences on each variable are given in bold on the diagonal, genetic and non-shared environmental correlations are given above the diagonal, and proportions of correlations attributable to genes and non-shared environment are given below the diagonal.

	Genetic influences					
	PAN	SOC	PHY	OCS	GAS	AP
Panic/agoraphobia	.32 (.22,.42)	.32 (.10,.51)	.20 (-.06,.41)	.73 (.57,.89)	.68 (.53,.81)	.53 (.35,.70)
Social anxiety	.33 (.10,.55)	.35 (.26,.44)	.30 (.08,.49)	.52 (.35,.67)	.61 (.46,.75)	.45 (.28,.61)
Physical injury fears	.21 (-.05,.44)	.33 (.08,.56)	.33 (.22,.43)	.49 (.29,.67)	.25 (.03,.44)	.12 (-.09,.31)
Obsessive-compulsive symptoms	.54 (.38,.70)	.46 (.28,.62)	.55 (.31,.77)	.36 (.27,.45)	.71 (.59,.83)	.58 (.43,.73)
Generalised anxiety symptoms	.45 (.30,.59)	.44 (.30,.57)	.30 (.04,.54)	.49 (.35,.61)	.41 (.31,.50)	.51 (.35,.65)
Attention problems	.50 (.31,.68)	.54 (.33,.73)	.22 (-.18,.55)	.58 (.40,.74)	.55(.36,.71)	.45 (.35,.53)
	Non-shared environmental influences					
	PAN	SOC	PHY	OCS	GAS	AP
Panic/agoraphobia	.68 (.58,.78)	.33 (.23,.42)	.37 (.27,.46)	.32 (.22,.41)	.46 (.38,.55)	.32 (.21,.42)
Social anxiety	.67 (.45,.90)	.65 (.56,.74)	.31 (.22,.41)	.34 (.25,.43)	.47 (.38,.55)	.26 (.15,.36)
Physical injury fears	.79 (.56,1)	.67 (.44,.92)	.67 (.57,.78)	.21 (.11,.31)	.34 (.23,.43)	.27 (.16,.37)
Obsessive-compulsive symptoms	.46 (.30,.62)	.54 (.38,.72)	.45 (.23,.69)	.63 (.55,.73)	.47 (.38,.55)	.28 (.18,.38)
Generalised anxiety symptoms	.55 (.41,.70)	.56 (.43,.70)	.70 (.46,.96)	.51 (.39,.65)	.59 (.50,.69)	.32 (.21,.42)
Attention problems	.50 (.32,.69)	.46 (.27,.67)	.78 (.45,1)	.42 (.26,.60)	.45 (.29,.64)	.55 (.47,.65)

PAN – Panic/agoraphobia, SOC – Social anxiety, PHY – Physical injury fears, OCS – Obsessive-compulsive symptoms, GAS –Generalised anxiety symptoms, AP – Attention problems.

Confidence intervals not spanning zero indicate significance.

Figure 1. Full correlated factor solution for study variables.



PAN – Panic/agoraphobia, SOC – Social anxiety, PHY – Physical injury fears, OCS – Obsessive-compulsive symptoms, GAS – Generalised anxiety symptoms, AP – Attention problems.

A_1 - A_6 , C_1 - C_6 and E_1 - E_6 respectively: additive genetic, shared environmental and non-shared environmental factors.