Data supplement I Summary of heritability analyses using Social and Communication Disorders Checklist data from twins. (Values show proportions of phenotypic variance, with 95% Cls in parentheses; A, additive genetic influences; C, shared environmental influences; E, unique environmental influences)

Model	Females			Males			Female-specific	Male-specific				
	А	С	E	А	С	E	Α	Α	χ^2	d.f.	Р	AIC
I	0.68	0.05	0.27	0.55	0.19	0.26			5.34	9	0.80	-12.66
	(0.44, 0.78)	(0.00, 0.26)	(0.22, 0.35)	(0.26, 0.79)	(0.00, 0.45)	(0.20, 0.35)						
II	0.67	0.05	0.28	0.55	0.19	0.26	0.00		5.34	8	0.72	-10.66
	(0.13, 0.78)	(0.00, 0.26)	(0.22, 0.35)	(0.26, 0.79)	(0.00, 0.79)	(0.00, 0.45)	(0.00, 0.43)					
III	0.67	0.05	0.28	0.55	0.19	0.26		0.00	5.08	8	0.75	-10.90
	(0.44, 0.77)	(0.00, 0.26)	(0.22, 0.36)	(0.10, 0.79)	(0.00, 0.45)	(0.19, 0.34)		(0.00, 0.00)				
	Males and females											
	A		С		E							
IV^2	0.	65	0.08		0.27				6.05	П	0.87	-15.95
	(0.46, 0.77)		(0.00, 0.25)		(0.22, 0.32)							
V	0.74		•	•	0.26				7.09	13	0.90	-18.91
	(0.68, 0.78)				(0.22, 0.32)							

AIC, Akaike's Information Criterion; K, scalar multiplier applied to female data.

I. Type of model:

l: common effects gender limitation model – estimates ACE separately for males and females;

Il: general gender limitation model - separate ACE for males and females, as well as female-specific additive genetic effects;

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IV: scalar gender limitation model – fixes ACE same in males and females and includes K (a scalar amplification or dampening of phenotypic traits);

V: fixes A and E same in males and females and fixes ${\it C}$ at zero (best fitting model).

^{2.} A scalar multiplier K=0.98 was applied to the female data.