

Supplementary table 1. The occurrence of autism spectrum disorder in the National Patient Register in twins who were screen-positive for autism spectrum disorder in the Child and Adolescent Twin Study in Sweden, born 1st of January 1993- 31st of December 2002

Number of individuals screen-positive in the Child and Adolescent Twin Study in Sweden that also had a diagnosis in the National Patient Register (95% CI:s)										
Total (% , 95% CI:s)										
50/190* (26,3%, 20-33)										
Annual estimates										
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Screenpositive/ registered diagnosis*	1/12	7/34	2/17	4/17	6/23	4/23	4/14	9/14	5/13	8/23
Registered diagnosis** (95% CI:s)	8.3 (0.0-24.4)	20.6 (7.0-34)	11.8 (2.0-35.6)	23.5 (3.3-43.7)	26.1 (8.1-44.0)	17.4 (1.9-32.8)	28.6 (4.9 - 52.2)	64.3 (39.1-89.4)	38.5 (12.0-64.9)	34.8 (15.3-54.3)

\* Individuals with a diagnosis in National Patient Register / that also were screen-positive in Child and Adolescent Twin Study in Sweden (cut-off  $\geq 8.5$ ).  
Diagnosis in the National Patient Register ascribed before their 10th birthday

\*\*Percentage of individuals screen-positive in Child and Adolescent Twin Study in Sweden who also had a diagnosis of autism spectrum disorder in the National Patient Register

Test for trend p-value p=.0172

Supplementary table 2. The prevalence of autism spectrum disorder in the National Patient Register in all Swedish twins born from first January 1993 to the 31 of December 2003. Diagnosis in the National Patient Register ascribed before their 10th birthday

Prevalence of autism spectrum disorder in the National Patient Register in Twins*										
Total n (prevalence , 95% CI:s) n = 107 (0,53%, ,43-63)										
Annual prevalence										
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
n	2,984	2,772	2716	2,556	2,644	2,622	2,736	2,586	2,704	2,643
Registered diagnosis*	0.17	.51	.26	.55	.53	.50	.69	.97	.89	.41
(95% CI:s)	(.02-.31)	(02-.77)	(.07-.45)	(.26-.83)	(.25-.81)	(.23-.76)	(.38-1.01)	(.59-1.34)	(.53-1.24)	(.17-.66)

\* Test for trend p-value =.0004

Supplementary table 3. Mean scores of the three modules constituting the autism-score

Mean scores (95% CI:s)										
	Language									
	Social interaction)									
	Restricted and repetitive behavior.									
Annual Estimates										
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Language/communication	.27 (.24-.29)	.28 (.25-.30)	.24 (.22-.27)	.26 (.23-.29)	.23 (.20-.25)	.24 (.22-.27)	.25 (.22-.28)	.22 (.20-.27)	.24 (.22-.27)	.27 (.24-.30)
Social interaction	.24 (.22-.26)	.29 (.26-.33)	.26 (.24-.29)	.23 (.21-.26)	.25 (.23-.28)	.28 (.25-.31)	.28 (.25-.31)	.25 (.23-.28)	.25 (.23-.28)	.32 (.29-.35)
Restricted and repetitive behavior	.22 (.20-.25)	.27 (.24-.29)	.27 (.24-.29)	.22 (.20-.25)	.24 (.22-.27)	.26 (.23-.29)	.25 (.22-.27)	.20 (.21-.27)	.24 (.21-.27)	.27 (.24-.29)



n	2304	2136	2088	1950	2050	1864	2002	1846	1882	1934
Registered diagnosis%	.09	.42	.34	.51	.39	.48	.75	.70	.64	.41
(n)	(2)	(9)	(7)	(10)	(8)	(9)	(15)	(13)	(12)	(8)
Non-responders in Child and Adolescent Twin Study in Sweden										
Total prevalence (95% CI:s)										
.77% (.56-.97)										
Annual estimate										
n	680	636	628	606	594	758	734	740	822	720
Registered diagnosis %	.44	.79	.00	.66	1.01	.53	.54	1.62	1.46	.42
(n)	(3)	(5)	(0)	(4)	(6)	(4)	(4)	(12)	(12)	(3)