

Additional file 1. Autistic symptoms of probands (autism and Asperger's disorder (AS)), unaffected siblings (US) and typically-developing controls (TD)

Group	Autism (<i>n</i> =122)	AS (<i>n</i> = 77)	US of autism (<i>n</i> = 122)	US of AS (<i>n</i> = 77)	TD (<i>n</i> = 196)	F	P
Social Communication Questionnaire							
Social deficits	11.46±5.55	10.50±5.53	1.92±2.66	2.69±2.57	2.53±2.62	127.80	<.001
Communication deficits	4.45±2.13	3.82±1.81	0.70±1.10	0.88±1.43	0.61±1.09	138.83	<.001
Stereotyped behaviors	5.51±2.73	4.64±2.71	0.89±1.28	1.38±1.43	0.89±1.42	107.00	<.001
Total scores	20.16±7.23	17.86±7.23	3.30±3.53	4.74±4.40	3.80±3.53	219.98	<.001
Autism Diagnostic Interview- Revised (ADI-R)							
Current:							
A: Social deficits	10.28±4.94	10.05±4.35				0.11	0.742
B: Communication (verbal)	11.81±4.62	11.14±4.16				0.00	0.984
B: Communication (non-verbal)	5.64±3.21	5.73±2.53				0.34	0.564
C: Restricted interests and stereotyped behaviors	5.36±2.67	5.36±2.68				0.01	0.909

Severe:

A: Social deficits	22.52±5.31	18.69±6.70	19.76	<.001
B: Communication (verbal)	16.55±3.69	13.55±4.33	27.05	<.001
B: Communication (non-verbal)	8.51±2.73	7.00±3.12	12.83	<.001
C: Restricted interests and stereotyped behaviors	7.32±2.38	6.65±2.80	3.22	0.074

Note: Only a portion of probands with autism spectrum disorders have ADIR B subscores (N=47 in probands with autism, N=22 in probands with Asperger's disorder). Post hoc analysis showed that autism probands showed more autistic traits than their unaffected siblings and TD in each autistic traits (social deficits, communication deficits, and stereotyped behaviors). Similarly, AS probands showed more autistic traits than their unaffected siblings and TD. AS=Asperger's disorder; TD=typically-developing controls; US=unaffected siblings