

Supplementary Online Content

Szatmari P, Georgiades S, Duku E, et al; Pathways in ASD Study Team. Developmental trajectories of symptom severity and adaptive functioning in an inception cohort of preschool children with autism spectrum disorder. *JAMA Psychiatry*. Published online January 28, 2015. doi:10.1001/jamapsychiatry.2014.2463.

eTable 1. Fit Statistics for Trajectory Models of Autistic Symptom Severity

eTable 2. Fit Statistics for Trajectory Models of Adaptive Behavior

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eTable 4. Results of the Prediction of Likelihood of Group Membership in Adaptive Functioning (Vineland Adaptive Behavior Scales Second Edition; VABS II) Trajectory Groups

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable1. Fit Statistics for Trajectory Models of Autistic Symptom Severity

Model	BIC	AIC	Loglikelihood
1 group, linear trajectory	-2141.58	-2135.57	2132.57
2 groups linear trajectories	-2111.23	-2099.20	-2093.20
3 groups linear trajectories	-2105.76	-2087.71	-2078.71

eTable2. Fit Statistics for Trajectory Models of Adaptive Behavior

Model	BIC	AIC	Loglikelihood
1 group linear	-5508.21	-5502.21	-5499.21
2 groups linear trajectories	-5199.62	-5187.61	-5181.61
3 groups linear trajectories	-5070.94	-5052.92	-5043.92
3 groups quadratic trajectories	-5063.22	-5039.20	-5027.20
4 groups linear trajectories	-5023.22	-4999.19	-4987.19
4 groups quadratic trajectories	-5015.89	-4983.85	-4967.85

eTable 3. Results of the Prediction of Likelihood of Group Membership in Autistic Symptom Severity (Autism Diagnostic Observation Schedule; ADOS) Trajectory Groups^a

(A positive coefficient indicates a higher likelihood of being in the non-reference trajectory group and vice versa)

Child characteristics	Coefficient	S.E.	P value
Age at diagnosis	0.04	0.03	0.13
Male ^b	1.31	0.62	0.03
M-P-R developmental standard index score	-0.02	0.02	0.13
PLS-4 total standard score	0.01	0.02	0.73
Site ^c			
Site(1)	-0.82	0.82	0.31
Site(2)	-0.28	0.71	0.87
Site(3)	17.17	2345.40	0.99
Site(4)	1.52	1.07	0.16

^aThe reference category for the analysis is "less severe & improving" trajectory group; ^bThe reference category is female; ^cThe reference category for site is 5

Note: M-P-R: Merrill-Palmer-Revised Scales of Development; PLS-4: Preschool Language Scale – Fourth Edition.

eTable 4. Results of the Prediction of Likelihood of Group Membership in Adaptive Functioning (Vineland Adaptive Behavior Scales Second Edition; VABS II) Trajectory Groups

(A positive coefficient indicates a higher likelihood of being in the non-reference trajectory group and vice versa)

Trajectory group ^a	Child characteristics	Coefficient	Std. Error	P value
Medium functioning & stable	Age at diagnosis	0.02	0.03	0.38
	MP-R dev index	0.03	0.01	0.04
	PLS total st. score	0.14	0.04	<.001
	Site ^c			
	site=1	0.60	0.78	0.44
	site=2	0.39	0.56	0.48
	site=3	-1.09	0.71	0.12
	site=4	1.04	0.74	0.16
	male ^b	0.42	0.57	0.47
Higher functioning & Improving	Age at diagnosis	-0.11	0.04	0.02
	MP-R dev index	0.07	0.02	<.001
	PLS total st. score	0.20	0.04	<.001
	Site ^c			
	site=1	-0.23	1.22	0.85
	site=2	1.65	0.90	0.07
	site=3	-0.86	1.06	0.42
	site=4	2.61	1.05	0.01
	male ^b	0.42	0.79	0.60

^aThe reference category for the analysis is "lower functioning & worsening" trajectory group; ^bThe reference category is female; ^cThe reference category for site is 5

Note: M-P-R: Merrill-Palmer-Revised Scales of Development; PLS-4: Preschool Language Scale – Fourth Edition.