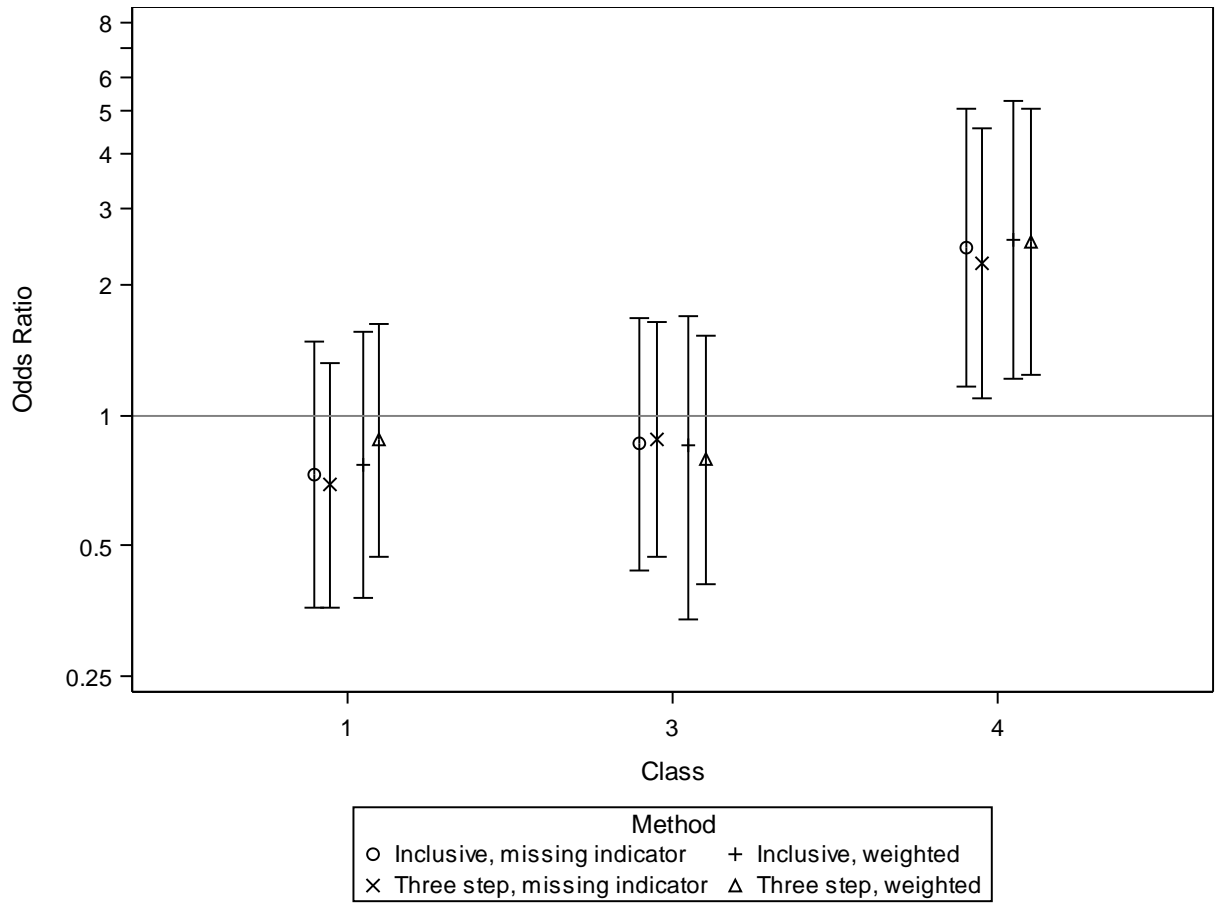


Supplement 1. Odds ratios comparing child autism spectrum disorder phenotype classes by any parent having the broader autism phenotype in the Study to Explore Early Development, by latent class and missing data methods



Class 2 with neither parent having the broader autism phenotype is the referent

Class 1: *Mild Language Delay with Cognitive Rigidity,*

Class 2: *Significant Developmental Delay with Repetitive Motor Behaviors*

Class 3: *General Developmental Delay*

Class 4: *Mild Language and Motor Delay with Dysregulation (e.g., anxiety/depression)*

Supplement 2. Item response means and probabilities of latent class membership among children with ASD by parental BAP status in the Study to Explore Early Development

	Latent Class probabilities or means									
	All ASD	BAP+ ASD Class				All ASD	BAP- ASD Class			
		1	2	3	4		1	2	3	4
Categorical variables (response probabilities)										
Current diet restriction	37.4	22.7	46.2	41.4	36.4	26.1	27.2	33.1	28.4	40.7
Early recognition of epilepsy/seizure disorder	2.0	0.0	7.7	0.0	0.0	4.9	0.0	13.6	2.0	6.4
History of regression	35.4	28.6	24.0	40.0	50.0	25.0	14.5	36.5	26.8	18.3
Insistence on sameness	74.0	72.7	69.2	73.3	81.8	69.1	72.3	62.7	64.4	91.9
Problems with age at first social smile	27.8	23.8	29.2	25.0	33.3	17.0	11.6	22.6	13.7	29.3
Repetitive behavior with objects	83.0	59.1	92.3	86.7	90.9	86.0	79.7	94.8	81.0	98.4
Repetitive motor mannerisms	88.9	81.0	96.2	90.0	86.4	81.0	72.2	95.7	76.1	83.9
Restricted interest	83.7	90.9	61.5	89.3	95.5	81.0	85.2	75.6	78.7	90.5
Self-injurious behavior	59.0	59.1	53.9	46.7	81.8	45.9	35.8	59.0	35.3	75.8
Unusual sensory response	6.0	90.9	96.2	96.7	100.0	94.1	91.0	96.9	93.7	96.8
Continuous variables (response means)										
Age at verbal language development	14.49	18.0	33.8	25.9	22.3	14.51	20.1	30.3	25.1	24.8
Age at walking	24.79	14.0	17.8	13.1	13.0	24.62	13.7	16.1	14.2	13.7
Aggressive behaviors	14.49	57.6	62.2	59.6	80.0	14.51	55.7	62.0	57.8	74.6
Anxiety/depression	64.42	53.7	58.2	53.5	73.8	59.92	53.6	56.0	53.4	67.7
Attention problems	59.35	57.6	67.7	60.4	72.0	55.54	59.1	67.1	61.8	70.8
Autism severity	64.31	6.5	7.8	7.4	6.2	63.25	6.8	7.9	7.2	6.6
Emotionally reactive	7.03	59.7	64.7	59.0	79.0	7.19	57.7	61.3	57.0	77.7
Expressive language skills	65.17	55.6	13.8	35.1	47.0	60.39	50.1	14.6	33.8	45.9
Fine motor skills	36.69	57.2	21.9	42.3	50.8	34.71	54.3	23.2	36.6	49.8

Receptive language skills	42.15	61.0	15.3	36.1	49.8	39.59	56.5	15.2	33.9	47.6
Sleep problems	39.20	38.2	38.0	55.0	64.7	37.00	38.0	38.1	48.4	57.7
Social communication abilities	46.08	13.2	20.7	19.0	20.2	42.87	13.1	20.9	16.7	20.6
Somatic complaints	56.09	59.1	62.8	58.5	66.5	50.33	56.8	60.4	58.1	68.5
Visual reception skills	18.43	64.6	22.7	44.9	55.8	17.20	60.9	23.2	39.8	53.2
Withdrawn behaviors	61.57	67.6	76.1	69.9	78.0	59.38	64.7	76.5	66.5	75.9

BAP: Broader autism phenotype

Any: Includes all four classes