

**Supplementary Table 3.** Tukey-Kramer pairwise comparisons for analysis group

Parameter	Condition	Group means		Mean difference	Tukey-Kramer test
Error	ASD vs. sibling	1.60	1.35	0.25	3.26
	ASD vs. TD	1.60	2.09	0.49	4.81*
	Sibling vs. TD	1.35	2.09	0.74	7.49*
Structural accuracy	ASD vs. sibling	17.58	19.35	1.77	7.64*
	ASD vs. TD	17.58	19.56	1.98	6.44*
	Sibling vs. TD	19.35	19.56	0.21	0.70
Incidental accuracy	ASD vs. sibling	22.42	26.08	3.66	11.99*
	ASD vs. TD	22.42	27.28	4.86	11.99*
	Sibling vs. TD	26.08	27.28	1.20	3.04
Configurational	ASD vs. sibling	0.35	0.46	0.11	5.63*
	ASD vs. TD	0.35	0.63	0.28	11.11*
	Sibling vs. TD	0.46	0.63	0.17	7.07*
Part-Oriented	ASD vs. sibling	0.35	0.21	0.13	8.79*
	ASD vs. TD	0.35	0.05	0.29	14.45*
	Sibling vs. TD	0.21	0.05	0.16	8.06*

\*studentized range critical value>3.22. ASD: autism spectrum disorder, TD: typically developing