

Supplemental Material S3. Overall pitch processing performance (accuracy) of ASD participants.

	Year	First author	Hedges's <i>g</i> (Variance)	<i>SE</i> (<i>g</i>)	95% CI	Type of participants (number)	Task paradigm	Quality index score	Main Results		
									Mean (<i>SD</i>)*		Effect of group
									ASD	TD	
1a	1998	Heaton	1.461 (0.2582)	0.508	[0.465,2.457]	ASD (10)-TD (10)	PL	0.82	11.7	5.8	▲
1b	1998	Heaton	1.2978 (0.2459)	0.496	[0.326,2.270]	ASD (10)-TD (10)	PM	0.82	8.9	4	▲
2	2000	Mottron	0.6591 (0.1628)	0.403	[-0.132,1.450]	ASD (13)-TD (13)	PC	0.91	67.92	56.64	●
3	2003	Foxton	-0.0074 (0.1436)	0.379	[-0.75,0.735]	ASD (13)-TD (15)	PC	0.86	12.222	12.24	●
4a	2003	Heaton	0.907 (0.121)	0.347	[0.226,1.288]	ASD (14)-TD (26)	PM	0.81	11.21	6.355	▲
4b	2003	Heaton	0.6474 (0.1153)	0.340	[-0.018,1.313]	ASD (14)-TD (26)	PCD	0.81	7.5	4	▲
4c	2003	Heaton	0.4022 (0.1043)	0.323	[-0.231,1.035]	ASD (15)-TD (28)	PCD	0.81	F = 1.64		●
5a	2005	Heaton	0.4753 (0.1051)	0.324	[-0.16,1.111]	ASD (15)-TD (28)	PDR	0.81	12.49	11.35	●
5b	2005	Heaton	0.1477 (0.1026)	0.320	[-0.48,0.776]	ASD (15)-TD (28)	PC	0.81	6.33	6.09	●
6a	2005	Altgassen	-0.3478 (0.1379)	0.371	[-1.076,0.380]	ASD (17)-TD (13)	PL	0.86	3.29	4.23	●
6b	2005	Altgassen	0.2333 (0.1367)	0.370	[-0.491,0.958]	ASD (17)-TD (13)	PCD	0.86	3.15	2.73	●
7	2007	Järvinen-Pasley	-0.2573 (0.1062)	0.326	[-0.896,0.381]	ASD (19)-TD (19)	PC	0.86	t = - 0.81		●
8	2008	Järvinen-Pasley	0.7253 (0.1068)	0.327	[0.085,1.366]	ASD (20)-TD (20)	PCI	0.86	t = 2.34		▲
9	2008	Heaton, Davis	1.6986 (1.2879)	1.135	[-0.526,3.923]	ASD (1)-TD (9)	PN	0.68	152	117.21	▲
10	2008	Heaton, Hudry	1.2704 (0.1734)	0.417	[0.454,2.087]	ASD (14)-TD (14)	PHD	0.91	34	24.9	▲
11a	2008	Heaton, Walliam	-0.0704 (0.0599)	0.245	[-0.550,0.409]	ASD (32)-TD (35)	PDR	0.91	12.27	12.85	●
11b	2008	Heaton, Walliam	0.1703 (0.060)	0.245	[-0.310,0.651]	ASD (32)-TD (35)	PM	0.91	15.34	13.78	●
12	2009	Jones	-0.2209 (0.0349)	0.187	[-0.587,0.145]	ASD (72)-TD (48)	PHD	0.95	1.02	1.12	●
13	2013	Eigsti	0.336 (0.0857)	0.293	[-0.238,0.910]	ASD (29)-TD (20)	PHD	0.91	F = 1.38		▲
14a	2014	Stanutz	0.1922 (0.0804)	0.284	[-0.364,0.748]	ASD (25)-TD (25)	PHD	0.86	9.06	8.12	●

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									ASD	TD	
14b	2014	Stanutz	0.598 (0.0837)	0.289	[0.031,1.165]	ASD (25)-TD (25)	PC	0.86	9.76	8.12	▲
14c	2014	Stanutz	0.6292 (0.0841)	0.290	[0.061,1.198]	ASD (25)-TD (25)	PM	0.86	12.25	10.17	▲
15a	2015	Jiang	0.4795 (0.1212)	0.348	[-0.203,1.162]	ASD (17)-TD (17)	PC	0.77	<i>F</i> = 2.05		●
15b	2015	Jiang	0.8545 (0.1289)	0.359	[0.151,1.558]	ASD (17)-TD (17)	PCI	0.77	<i>F</i> = 6.51		▲
16a	2015	Globerson	-0.0078 (0.0813)	0.285	[-0.567,0.551]	ASD (20)-TD (32)	PDR	0.91	44.9	45.4	●
16b	2015	Globerson	0.1098 (0.0814)	0.285	[-0.449,0.669]	ASD (20)-TD (32)	PHD	0.91	25.7	21.47	●
17a	2016	Mayer	0.3654 (0.1454)	0.381	[-0.382,1.113]	ASD (14)-TD (14)	PHD	0.95	32	29	●
17b	2016	Mayer	-0.3747 (0.1072)	0.327	[-1.016,0.267]	ASD (19)-TD (19)	PHD	0.95	32.52	35.21	●
18	2017	Cheng	-0.0432 (0.1)	0.316	[-0.663,0.577]	ASD (20)-TD (20)	PHD	0.91	21.91	22.14	●
19	2019	Germain	0.0462 (0.1115)	0.334	[-0.608,0.701]	ASD (17)-TD (19)	PDR	0.86	<i>F</i> = 0.02		●
20	2019	Schelinski	-0.4108 (0.1278)	0.358	[-1.111,0.290]	ASD (16)-TD (16)	PC	0.91	44.43	46.202	●
21	2019	Jamey	0.254 (0.1011)	0.318	[-0.369,0.877]	ASD (19)-TD (21)	PC	0.86	<i>F</i> = 0.67		●
22	2021	Weiss	-0.8025 (0.0833)	0.289	[-1.368, -0.237]	ASD (26)-TD (26)	PM	0.91	0.45	0.63	▲

Note: (1) Negative effect size Hedges's *g* indicates lower accuracy in ASD participants compared to TD controls; (2) ASD = autism spectrum disorder; TD = typical developing people; ▲ = significant difference ($p < .05$); ● = non-significant difference; (3) The data were collected based on the accuracy rate reported in the included studies.

**F* values or *t* values are presented when means and SDs were not reported.