

## Supplementary Tables

**Table S1** Percentages of ASD, SPD and TD participants meeting probable or definite cut-off scores for sensory processing difficulties on the Sensory Profile. Comparison p values of Kruskal-Wallis test and post hoc test of sensory constructs across groups (df = 2).

	%			Kruskal-Wallis		post hoc <i>p</i> values					
	ASD	SPD	TD	$\chi^2$	<i>p</i>	ASD TD	v	SPD TD	v	ASD SPD	v
Sensory seeking	46.1	60.9	11.9	19.54	< .001	.01		< .001		1.00	
Hypo-reactivity	76.9	52.2	4.8	37.40	< .001	< .001		.002		.11	
Hyper-reactivity	42.3	27.3	4.8	14.58	.001	.001		.09		.69	
Total sensory reactivity	84.5	77.3	16.7	41.16	< .001	< .001		< .001		1.00	

Note. Cut-off scores for total sensory processing were derived as per construct cut-offs detailed in Dunn (26). Probable difference scores lie between 1SD and 2SD below the mean of the TD group and definite difference scores lie 2SD below the mean of the TD group ( $M = 131.30$ ,  $SD = 8.73$ ).

**Table S2** Percentages of ASD, SPD and TD participants meeting screening cut-off scores of mental health symptoms on the CBI-4 warranting further investigation. Comparison p values of a Kruskal-Wallis test and post hoc test of mental health diagnostic cut-offs across groups (df = 2).

	%			Kruskal-Wallis		post hoc <i>p</i> values		
	ASD	SPD	TD	$\chi^2$	<i>p</i>	ASD v TD	SPD v TD	ASD v SPD
Inattention	50.0	56.5	2.4	42.57	< 0.01	< 0.01	< 0.01	1.00
Hyperactivity	34.6	30.4	2.4	40.55	< 0.01	< 0.01	< 0.01	1.00
ADHD	38.5	21.7	2.4	48.46	< 0.01	< 0.01	< 0.01	1.00
ODD	19.2	39.1	2.4	11.96	< 0.01	0.21	< 0.01	0.43
CD	3.8	21.7	2.4	7.44	< 0.01	1.00	0.02	0.17
GAD	34.6	43.5	7.1	15.97	< 0.01	< 0.01	< 0.01	1.00
Social Phobia	26.9	13.4	2.4	14.57	< 0.01	< 0.01	0.65	0.08
Obsessions	34.6	21.7	14.3	4.23	0.12			
Compulsions	19.2	4.3	4.9	5.22	0.07			
OCD				6.48	0.04	0.03	1.00	0.35
PTSD	23.1	13.0	7.1	3.81	0.15			
Motor Tic	19.2	26.1	2.4	11.25	< 0.01	0.05	< 0.01	1.00
Vocal Tic	11.5	34.8	4.9	10.88	< 0.01	1.00	< 0.01	0.07

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Depression	11.5	17.4	2.4	11.24	< 0.01	0.02	0.01	1.00
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Note: ADHD = Attention Deficit Hyperactivity Disorder; ODD = Oppositional Defiance Disorder; CD = Conduct Disorder; GAD = Generalised Anxiety Disorder; OCD = Obsessive Compulsive Disorder; PTSD = Posttraumatic Stress Disorder.

OCD is a composite of obsessions and compulsions, however the CSI does not include cut-off scoring for OCD.

Depression is a composite of two sets of criteria outlined in the CSI-4 manual (29).