

Table S1. Sociodemographic, clinical, neuropsychological and neuroimaging characteristics of ADHD and TD samples.

	ADHD (N=24)	TD (N=25)	Statistic value	<i>p</i>
Sociodemographic characteristics				
Female:Males	2:22	4:21	0.0 ^a	1
Age (m ± SD)	10.91 ± 2.8	10.43 ± 2.9	0.6 ^b	0.565
SES (m ± SD)	47.1 ± 12.6	53.5 ± 19.7	233.5 ^c	0.4804
WISC-IV FSIQ (m ± SD)	99.53 ± 14.1	106.1 ± 17.4	238.5 ^c	0.365
Clinical characteristics: CPRS-R				
Oppositional (m ± SD)	72.87 ± 16.5	52.13 ± 13.6	470.5 ^c	<0.001
Cognitive problems/Inattention (m ± SD)	81.08 ± 11.6	47.00 ± 8.7	566.5 ^c	<0.001
Hyperactivity (m ± SD)	77.33 ± 11.5	48.38 ± 13.1	535 ^c	<0.001
Anxious/Shy (m ± SD)	52.25 ± 11.1	48.33 ± 11.0	352.5 ^c	0.185
Perfectionism (m ± SD)	53.66 ± 11.7	43.29 ± 8.6	455 ^c	<0.001
Social Problems (m ± SD)	71.29 ± 19.9	53.08 ± 11.5	443.5 ^c	<0.001
Psychosomatic Problems (m ± SD)	53.04 ± 13.8	46.17 ± 5.9	386.5 ^c	0.039
ADHD index (m ± SD)	81.54 ± 9.6	47.92 ± 9.7	566.5 ^c	<0.001
Neuropsychological characteristics				
Nepsy - Visual Attention	9.30 ± 3.5	10.04 ± 3.2	252 ^c	0.614
ANT (ms) (mean ± SD)				
<i>Baseline speed</i>				
RT	395.29 ± 136.4	362.54 ± 113.8	227.0 ^c	0.556
SD of RT	225.53 ± 205.8	158.13 ± 119.1	242.5 ^c	0.315
<i>Focused Attention 4 Letters</i>				
RT correct responses	1304.895 ± 491.1	1071.435 ± 371.9	276.5 ^c	0.146
SD of correct responses RT	558 ± 304.2	326.5 ± 176.4	324 ^c	0.008
<i>Visual set-shifting</i>				
RT inhibition	270.81 ± 292.6	272.38 ± 268.4	192.0 ^c	1

RT flexibility	453.06 ± 492.9	506.13 ± 419.2	171.0 ^c	0.571
<i>Sustained attention dots</i>				
Time x Series	17.2 ± 5.9	15.4 ± 5.4	199 ^c	0.408
SD	3.8 ± 1.5	2.9 ± 1.4	235 ^c	0.053
Neurophysiology: fNIRS				
Prefrontal right (m ± SD)	1.43 ± 3.6	3.50 ± 5.4	104.0 ^c	0.001
Frontal right (m ± SD)	0.78 ± 3.7	4.46 ± 4.1	100.0 ^c	0.014
Prefrontal left (m ± SD)	0.95 ± 3.6	1.83 ± 4.8	176.0 ^c	0.360
Frontal left (m ± SD)	1.08 ± 2.4	0.95 ± 3.1	172.0 ^c	0.831
Notes: ADHD= attention deficit hyperactivity disorder patients group; ANT= Amsterdam Neuropsychological Task; CPRS-R= Conners Parent Rating Scale- Revised; fNIRS= functional near-infrared spectroscopy; m = mean; ms= milliseconds; NEPSY= A Developmental NEuroPSYchological Assessment; TD = Typically developing peers group; SD = standard deviation; RT= Reaction time; SES= Socioeconomic status; WISC-IV= Wechsler Intelligence Scale for Children-IV Full Scale Intelligence Quotient. a = Pearson's Chi-squared test; b = Independent two sample T test; c = Wilcoxon rank sum test.				