

Table S1. Between-Group Comparisons of ADHD and Healthy Control Adults for Excluded Working Memory Tasks

Study	N	Measure	PH/VS	Effect Size ^a	95% Confidence Interval
Gansler et al. (1998)	30 ADHD 10 HC	Brown-Peterson Auditory Consonant Trigrams Test	PH	0.382	-0.33 – 1.08
Ross et al. (2000)	10 ADHD 10 HC	Memory Guided Saccades: 3s Delay	VS	-0.029	-0.87 – 0.81
McLean et al. (2004)	19 ADHD 19 HC	Pattern Recognition Memory (CANTAB)	VS	1.17	0.50 – 1.84
McLean et al. (2004)	19 ADHD 19 HC	Spatial Recognition Memory (CANTAB)	VS	-0.486	-1.12 – 0.15
Valera et al. (2005)	20 ADHD 20 HC	X-Task	PH	0.601	-0.02 – 1.22
White et al. (2005)	10 ADHD 10 HC	Paced Auditory Serial Addition Task: Trial 2	PH	2.28	1.18 – 3.38
White et al. (2005)	10 ADHD 10 HC	Paced Auditory Serial Addition Task: Trial 3	PH	2.11	1.05 – 3.18
White et al. (2005)	10 ADHD 10 HC	Paced Auditory Serial Addition Task: Trial 4	PH	2.34	1.23 – 3.45
Schweitzer et al. (2006)	17 ADHD 18 HC	Letter-Number Sequencing (WAIS-III)	PH	3.85	2.74 – 4.96
Hale et al. (2007)	10 ADHD 10 HC	Modified Digit Span Forward	PH	-0.182	-1.02 – 0.66
Ehlis et al. (2008)	13 ADHD 13 HC	1-Back	PH	0.784	0.01 – 1.56
Gropper & Tannock (2009)	16 ADHD 30 HC	Letter-Number Sequencing (WAIS-III)	PH	0.463	-0.14 – 1.07
Gropper & Tannock (2009)	16 ADHD 30 HC	Paced Auditory Serial Addition Task: 2.4s	PH	0.998	0.37 – 1.63

Study	N	Measure	PH/VS	Effect Size ^a	95% Confidence Interval
Gropper & Tannock (2009)	16 ADHD 30 HC	Spatial Working Memory (CANTAB)	VS	0.624	0.01 – 1.23
Gropper & Tannock (2009)	16 ADHD 30 HC	Spatial Span Forward (CANTAB)	VS	0.448	-0.16 – 1.05
Wolf et al. (2009)	12 ADHD 12 HC	Digit Span Forward (WAIS-R)	PH	0.869	0.06 – 1.68
Wolf et al. (2009)	12 ADHD 12 HC	Digit Span Backward (WAIS-R)	PH	1.14	0.30 – 1.97
Wolf et al. (2009)	12 ADHD 12 HC	Corsi Block Tapping Forward	VS	-0.740	-1.54 – 0.06
Agay et al. (2010)	13 ADHD 16 HC	Digit Span Forward (WAIS-R)	PH	0.745	0.01 – 1.48
Barkley & Murphy (2010)	146 ADHD 109 HC	Digit Span Forward (WAIS-III)	PH	0.390	0.14 – 0.64
Boonstra et al. (2010)	49 ADHD 49 HC	Digit Span Backward (WAIS-III)	PH	0.638	0.24 – 1.04
Boonstra et al. (2010)	49 ADHD 49 HC	Self-Ordered Pointing Task	VS	0.398	0.001 – 0.79
Burgess et al. (2010)	20 ADHD 23 HC	Digit Span Forward (WAIS-III)	PH	0.979	0.36 – 1.60
Burgess et al. (2010)	20 ADHD 23 HC	Spatial Span Forward (WMS-R)	VS	0.904	0.29 – 1.52
Lis et al. (2010)	20 ADHD 20 HC	1-Back: Test Interval 1	PH	0.063	-0.54 – 0.67
Lis et al. (2010)	20 ADHD 20 HC	1-Back: Test Interval 3	PH	-0.484	-1.10 – 0.13

Study	N	Measure	PH/VS	Effect Size ^a	95% Confidence Interval
Marx et al. (2010)	20 ADHD 20 HC	1-Back	PH	0.222	-0.39 – 0.83
Valera et al. (2010)	44 ADHD 49 HC	0-Back	PH	0.000	-0.40 – 0.40
Aycicegi-Dinn et al. (2011)	13 ADHD 19 HC	Logical Memory (WMS-R-Turkish)	PH	0.964	0.24 – 1.69
Aycicegi-Dinn et al. (2011)	13 ADHD 19 HC	Rey-Osterrieth Complex Figure Test	VS	0.320	-0.37 – 1.01
Barkley & Fischer (2011)	55 ADHD 75 HC	Hand Movements (KABC-II)	VS	0.861	0.50 – 1.22
Brown et al. (2011)	33 ADHD 12 HC	0-Back	PH	0.237	-0.41 – 0.89
Ibáñez et al. (2011)	10 ADHD 10 HC	Digit Span Backward (WAIS-III)	PH	1.86	0.84 – 2.88
Ibáñez et al. (2011)	10 ADHD 10 HC	Rey Auditory Verbal Learning Test	PH	1.55	0.58 – 2.52
Marx et al. (2011)	39 ADHD 40 HC	1-Back: High Emotional Salience	PH	0.604	0.16 – 1.05
Marx et al. (2011)	39 ADHD 40 HC	1-Back: Neutral Emotional Salience	PH	0.649	0.20 – 1.10
Marx et al. (2011)	39 ADHD 40 HC	1-Back: Low Emotional Salience	PH	0.924	0.46 – 1.38
Marx et al. (2011)	39 ADHD 40 HC	2-Back: High Emotional Salience	PH	0.969	0.51 – 1.43
Marx et al. (2011)	39 ADHD 40 HC	2-Back: Low Emotional Salience	PH	0.890	0.43 – 1.35
Prox-Vagedes et al. (2011)	13 ADHD 13 HC	Continuous Word Recognition Task: Presentation 1	PH	-0.476	-1.23 – 0.28

Study	N	Measure	PH/VS	Effect Size ^a	95% Confidence Interval
Rucklidge et al. (2011)	14 ADHD 14 HC	Verbal Learning (WRAML-II)	PH	0.561	-0.17 – 1.30
Rucklidge et al. (2011)	14 ADHD 14 HC	Story Memory (WRAML-II)	PH	-0.020	-0.74 – 0.70
Rucklidge et al. (2011)	14 ADHD 14 HC	Picture Memory (WRAML-II)	VS	-0.408	-1.14 – 0.32
Torralva et al. (2011)	16 ADHD 15 HC	Digit Span Forward (WAIS-III)	PH	0.394	-0.30 – 1.09
Torralva et al. (2011)	16 ADHD 15 HC	Digit Span Backward (WAIS-III)	PH	0.296	-0.39 – 0.99
Torralva et al. (2011)	16 ADHD 15 HC	Logical Memory (WMS-R)	PH	0.372	-0.32 – 1.06
Torralva et al. (2011)	16 ADHD 15 HC	Rey Auditory Verbal Learning Test	PH	0.914	0.19 – 1.64
Rohlf et al. (2012)	19 ADHD 32 HC	Digit Span Forward (WAIS-German)	PH	0.577	0.01 – 1.15
			Task Modality	Overall Effect Size ^b	95% Confidence Interval
			Phonological	0.68 ^c	0.49 – 0.87
			Visuospatial	0.32 ^c	-0.02 – 0.66

Note. All studies were between-group comparisons of ADHD and healthy control adults. ADHD = attention-deficit/hyperactivity disorder; CANTAB = Cambridge Neuropsychological Test Automated Battery; HC = healthy/normal control; KABC-II = Kaufman Assessment Battery for Children-Second Edition; PH = phonological; VS = visuospatial; WAIS = Wechsler Adult Intelligence Scale; WMS-R = Wechsler Memory Scale-Revised; WRAML = Wide Range Assessment of Memory and Learning.

^aPositive effect size reflects poorer performance (lower accuracy or greater errors) by the ADHD group.

^bThe overall effect size estimates are likely biased by the inclusion of multiple data points from the same sample (i.e., multiple tasks from the same study) which overweights findings from a sample and risks threats to statistical independence.

^cThe PH and VS effect sizes obtained from excluded task/conditions were not significantly different from the overall effect sizes reported in the study.