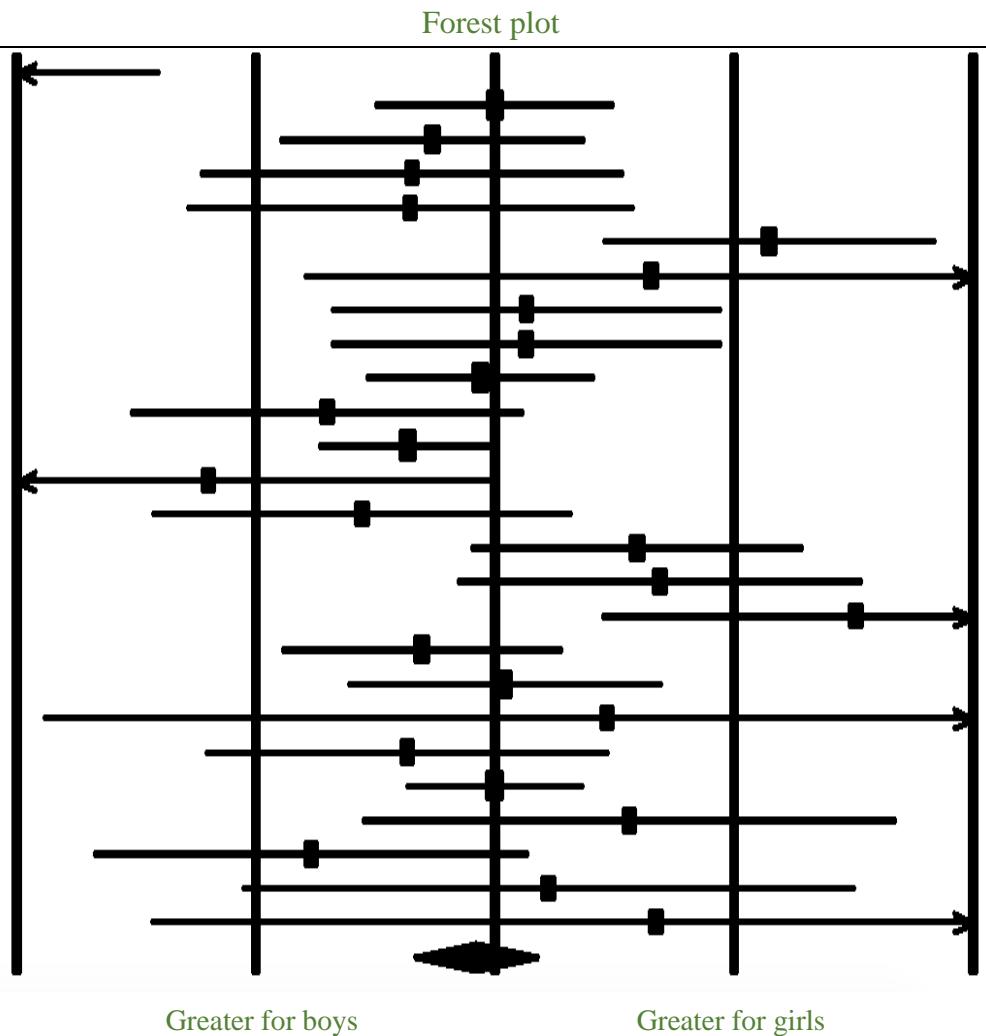
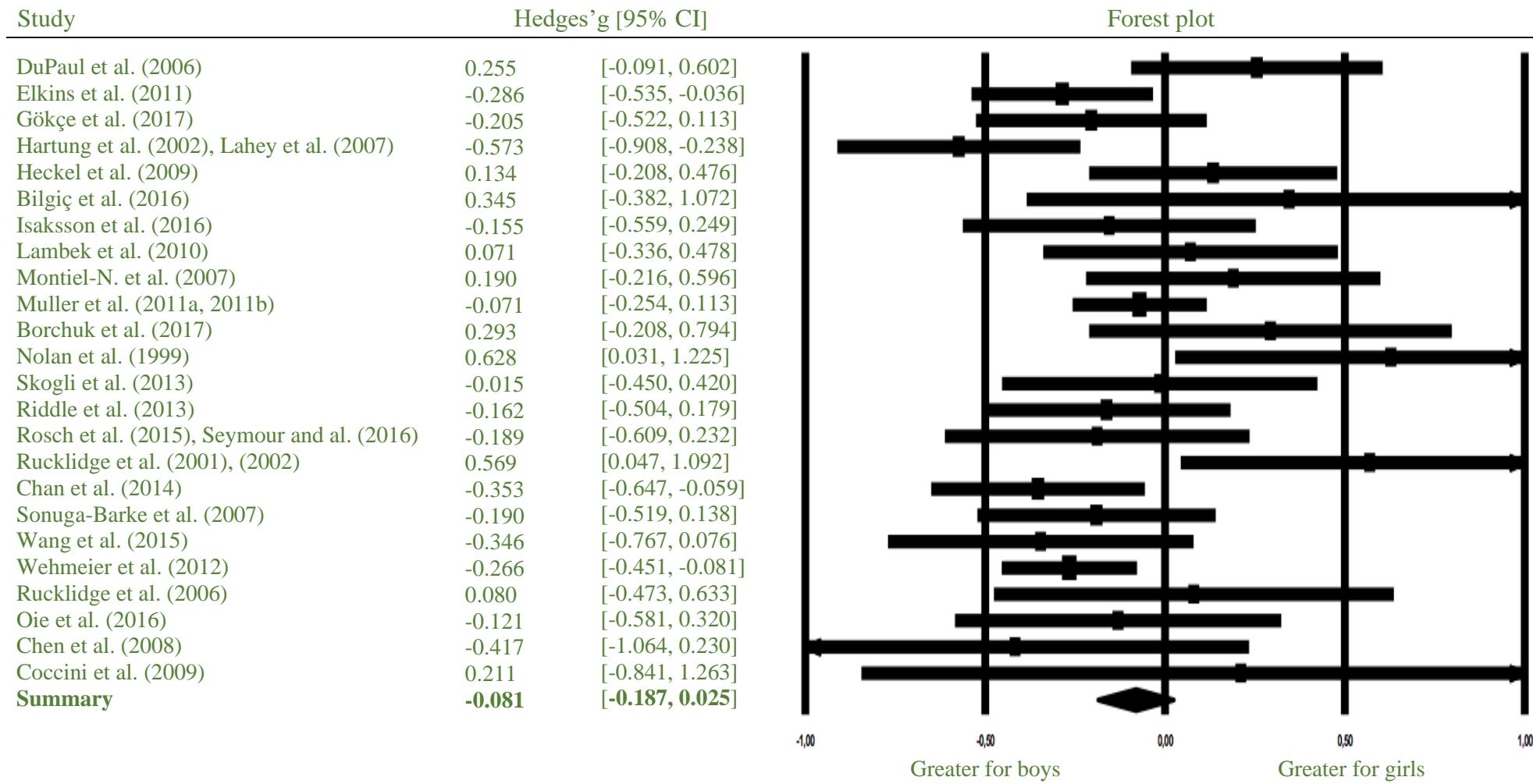


Study	Hedges' g [95% CI]
DuPaul et al. (2006)	-1.064 [-1.427, -0.701]
Elkins et al. (2011)	0,000 [-0.248, 0.248]
Gökçe et al. (2017)	-0.130 [-0.447, 0.187]
Graetz et al. (2005), (2006)	-0.173 [-0.615, 0.268]
Hartung et al. (2002), Lahey et al. (2007)	-0.177 [-0.643, 0.290]
Heckel et al. (2009)	0.574 [0.227, 0.920]
Bilgiç et al. (2016)	0.327 [-0.397, 1.052]
Isaksson et al. (2016)	0.066 [-0.340, 0.472]
Lambek et al. (2010)	0.066 [-0.341, 0.473]
Mayfield et al. (2016)	-0.030 [-0.268, 0.207]
Montiel-N. et al. (2007)	-0.350 [-0.760, 0.059]
Muller et al. (2011a, 2011b)	-0.183 [-0.366, 0.001]
Nolan et al. (1999)	-0.598 [-1.194, -0.003]
Skogli et al. (2013)	-0.278 [-0.715, 0.160]
Riddle et al. (2013)	0.298 [-0.048, 0.643]
Rosch et al. (2015) & Seymour et al. (2016)	0.345 [-0.077, 0.768]
Rucklidge et al. (2001), (2002)	0.755 [0.225, 1.286]
Chan et al. (2014)	-0.152 [-0.444, 0.140]
Sonuga-Barke et al. (2007)	0.021 [-0.307, 0.348]
Sonuga-Barke et al. (2008)	0.234 [-0.943, 1.412]
Wang et al. (2015)	-0.183 [-0.604, 0.238]
Wehmeier et al. (2012)	0.000 [-0.184, 0.184]
Rucklidge et al. (2006)	0.281 [-0.275, 0.837]
Oie et al. (2016)	-0.384 [-0.836, 0.069]
Chen et al. (2008)	0.113 [-0.528, 0.753]
Coccini et al. (2009)	0.337 [-0.718, 1,392]
Summary	-0.040 [-0.169, 0.090]



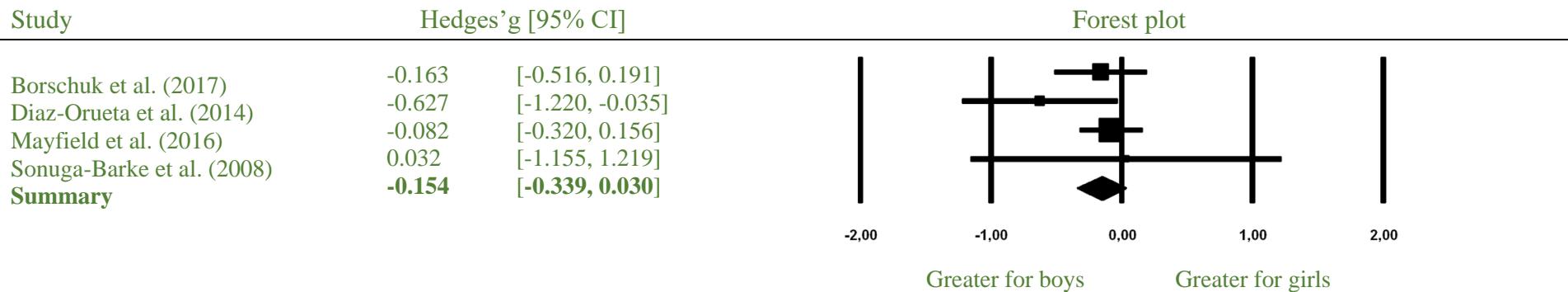
Supplementary Figure 1 Inattention symptoms: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated more severe symptoms in girls, whereas a negative effect size indicated more severe symptoms in boys.



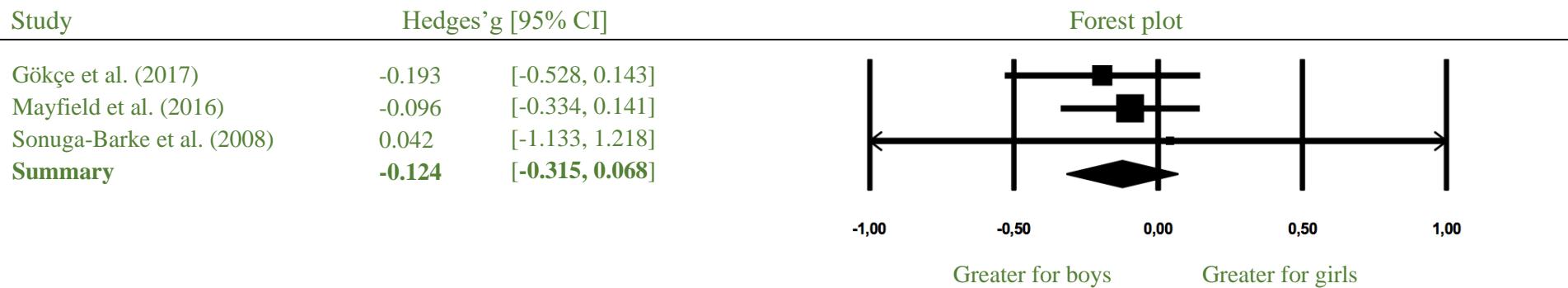
Supplementary Figure 2 Hyperactivity-impulsivity symptoms: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated more severe symptoms in girls, whereas a negative effect size indicated more severe symptoms in boys.



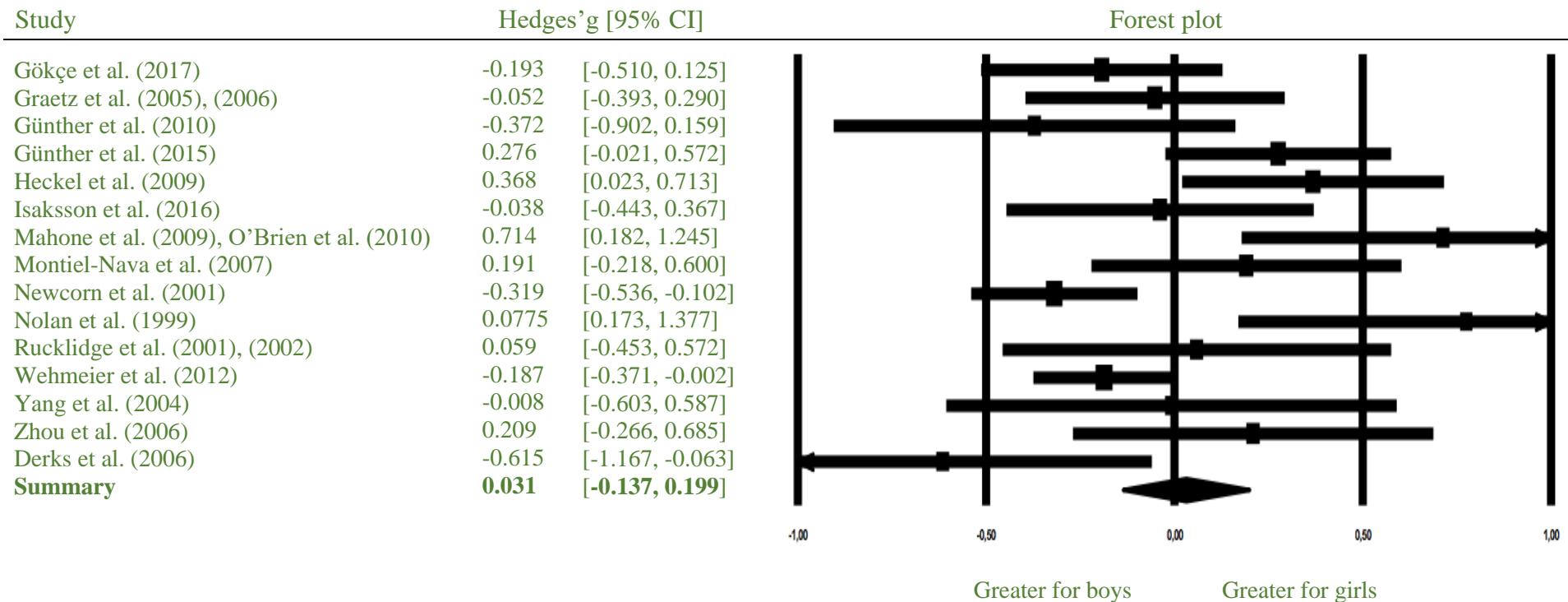
Supplementary Figure 3 Hyperactivity symptoms: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated more severe symptoms in girls, whereas a negative effect size indicated more severe symptoms in boys.



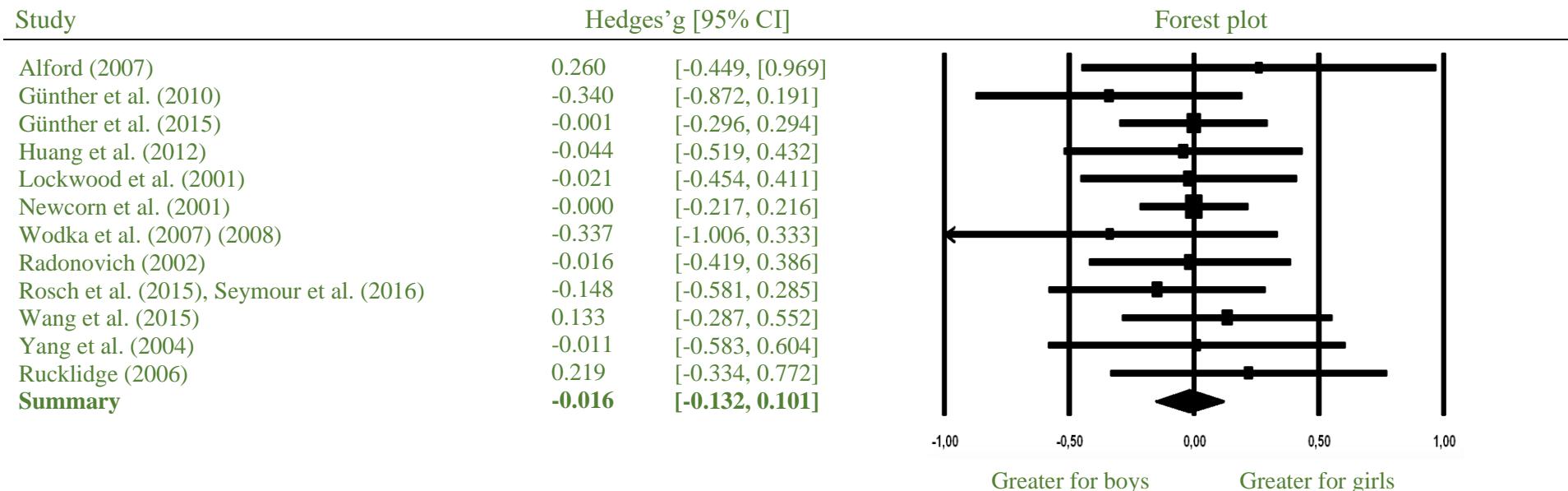
Supplementary Figure 4 Impulsivity symptoms: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated more severe symptoms in girls, whereas a negative effect size indicated more severe symptoms in boys.



Supplementary Figure 5 Total ADHD symptoms: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated more severe symptoms in girls, whereas a negative effect size indicated more severe symptoms in boys.



Supplementary Figure 6 Attention: Differences between boys and girls with ADHD

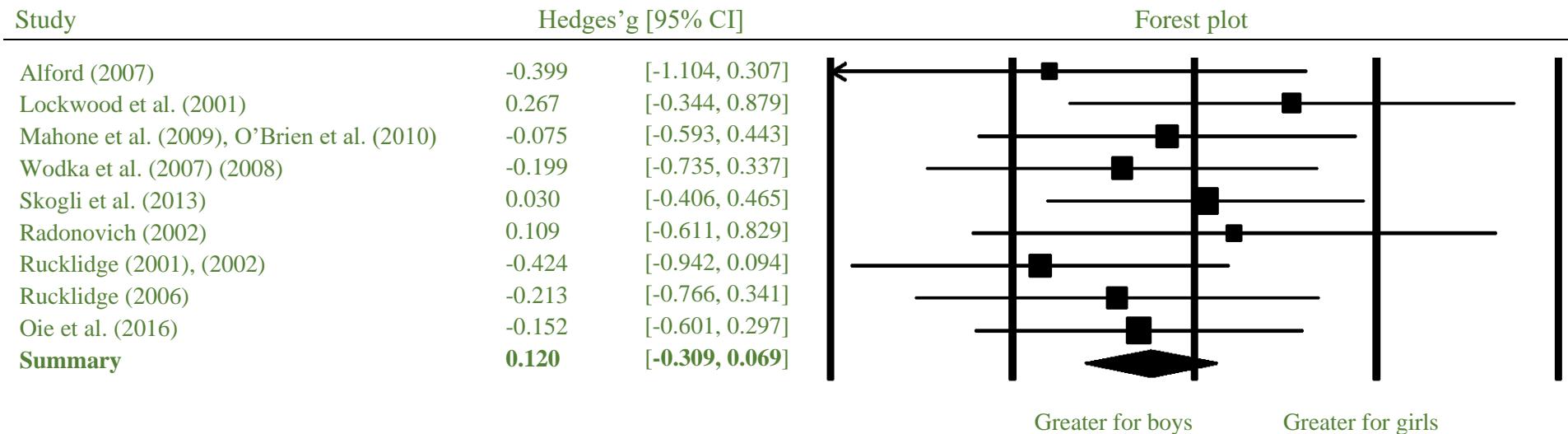
Note. CI= confidence interval. A positive effect size indicated a greater attention deficit in girls, whereas a negative effect size indicated a greater attention deficit in boys.

Forest plot showing Hedges' g [95% CI] for each study and a summary estimate. The x-axis represents the effect size, ranging from -0.761 to 0.261. A vertical line at 0 indicates no difference. Squares represent individual study estimates, and a diamond represents the summary estimate. A horizontal line at approximately -0.251 indicates a significant difference favoring boys.

Study	Hedges' g	95% CI
Alford (2007)	0.261	[−0.443, 0.966]
Günther et al. (2010)	−0.029	[−0.556, 0.498]
Günther et al. (2015)	0.282	[−0.015, 0.578]
Huang et al. (2012)	0.221	[−0.256, 0.698]
Lockwood et al. (2001)	−0.151	[−0.768, 0.466]
O'Brien et al. (2010)	−0.153	[−0.670, 0.364]
Martel (2008)	−0.216	[−0.529, 0.096]
Newcorn et al. (2001)	−0.528	[−0.953, −0.102]
Nigg et al. (2002)	0.312	[−0.523, 1.146]
Wodka et al. (2007) (2008)	−0.233	[−0.899, 0.433]
Prout (2000)	0.018	[−0.603, 0.638]
Radonovich (2002)	−0.410	[−0.987, 0.168]
Rosch and al. (2015), Seymour and al. (2016)	−0.409	[−0.846, 0.028]
Rucklidge (2001), (2002)	0.035	[−0.497, 0.567]
Rumsey (2004)	−0.404	[−0.856, 0.048]
Sjöwall et al. (2013)	−0.132	[−0.519, 0.256]
Sonuga-Barke et al. (2007)	−0.370	[−1.571, 0.831]
Wang et al. (2015)	−0.207	[−0.627, 0.213]
Yang et al. (2004)	−0.370	[−0.969, 0.229]
Rucklidge (2006)	−0.206	[−0.347, 0.759]
Oie et al. (2016)	−0.761	[−1.359, −0.163]
Summary	−0.136*	[−0.251, −0.021]

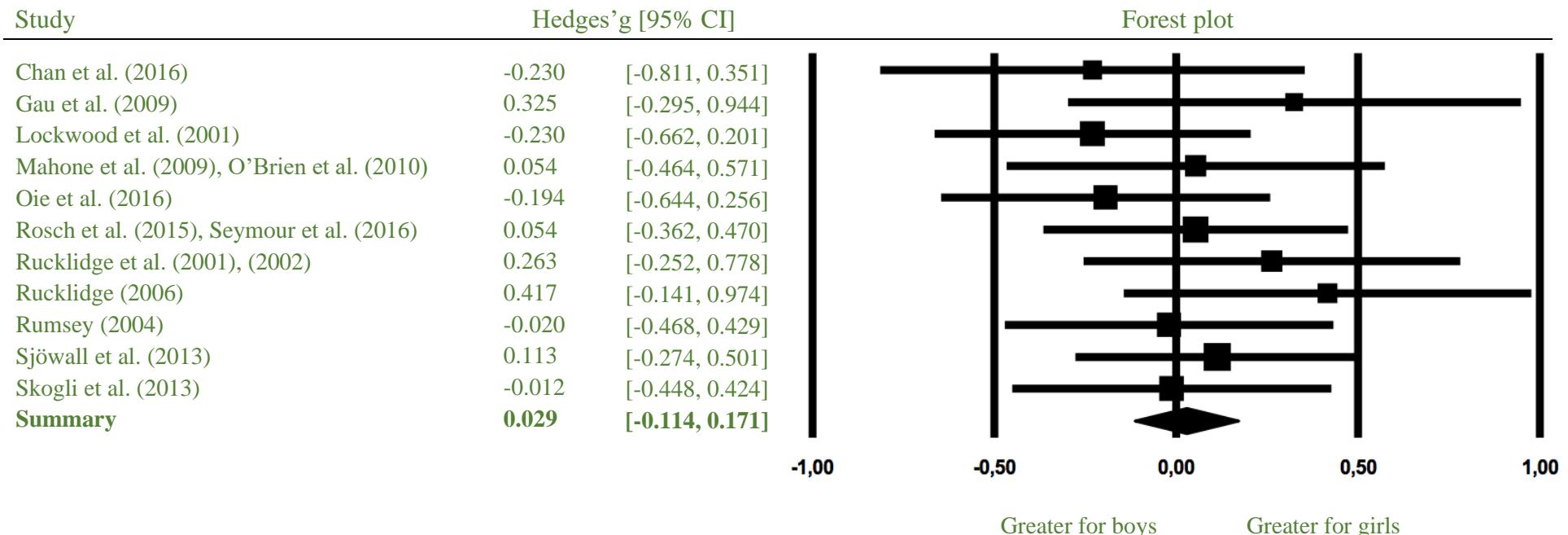
Supplementary Figure 7 Motor inhibition: Differences between boys and girls with ADHD

Note. * $p < .05$. CI = confidence interval. A positive effect size indicated a greater executive deficit in girls, whereas a negative effect size indicated a greater executive deficit in boys.



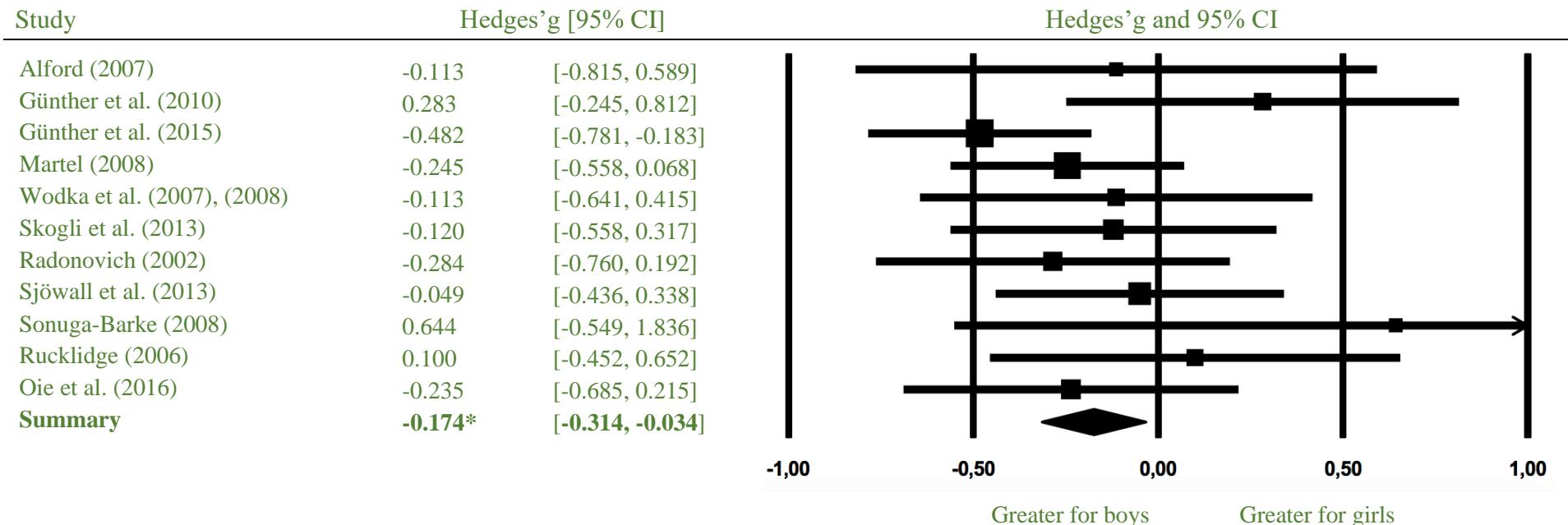
Supplementary Figure 8 Interference control: Forest plot of differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated a greater executive deficit in girls, whereas a negative effect size indicated a greater executive deficit in boys.



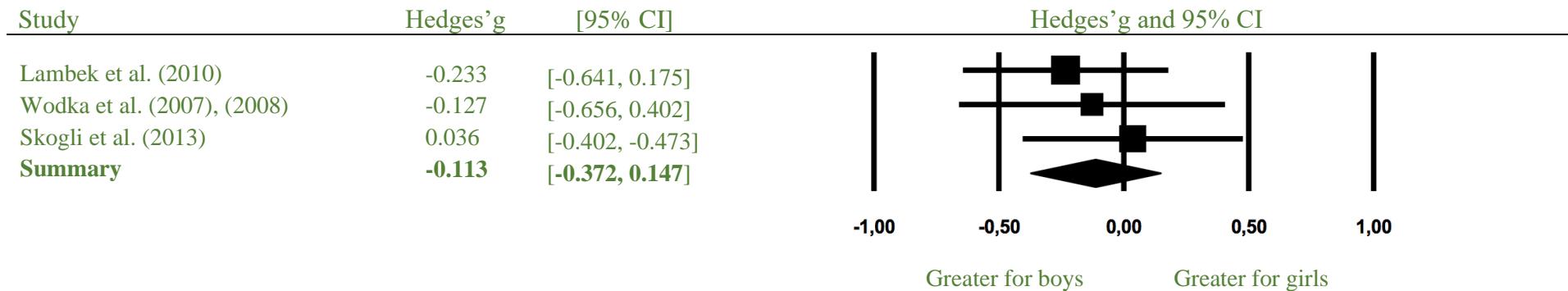
Supplementary Figure 9 Working memory: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated a greater executive deficit in girls, whereas a negative effect size indicated a greater executive deficit in boys.



Supplementary Figure 10 Cognitive flexibility: Differences between boys and girls with ADHD

Note. * $p < .05$ CI= confidence interval. A positive effect size indicated a greater executive deficit in girls, whereas a negative effect size indicated a greater executive deficit in boys.

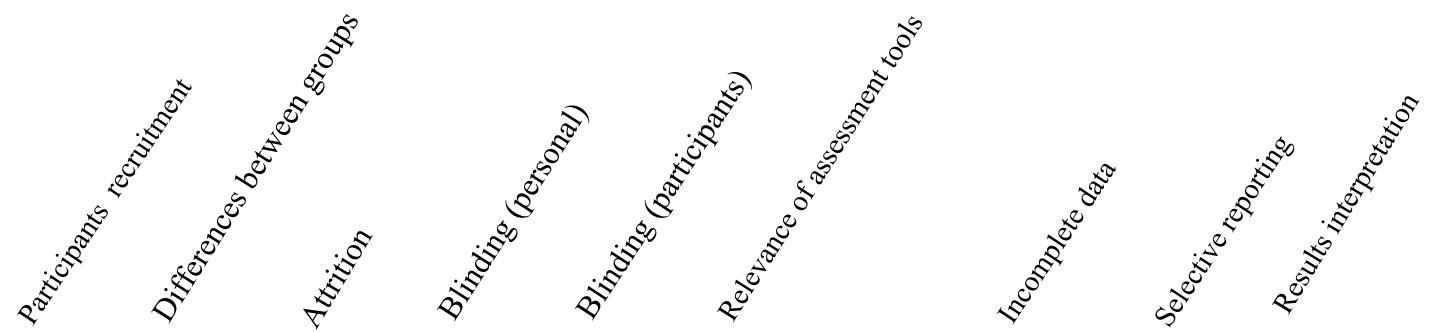


Supplementary Figure 11 Planification: Differences between boys and girls with ADHD

Note. CI= confidence interval. A positive effect size indicated a greater executive deficit in girls, whereas a negative effect size indicated a greater executive deficit in boys.

Supplementary Table 1

Risk of bias assessment



	Selection bias		Performance bias		Assessment bias		Analysis bias		Reporting bias	
Alford (2007)	+	+	+	-	-	+	+	+	+	+
Bilgiç, Toker, and Uysal. (2016)	?	+	+	?	-	+	+	+	+	+
Borschuk, Rodweller, and Salorio (2018)	-	+	?	+	-	+	+	+	-	+
Chan, Lai, Luk, Hung, and Leung (2014)	-	+	+	+	-	+	+	+	+	+
Chan and Martinussen (2016)	+	+	+	-	-	+	+	?	+	+
Chen, Seipp, and Johnston (2008)	+	+	+	-	-	+	+	+	+	+
Coccini et al. (2009)	-	-	?	?	?	+	+	+	+	-
Derkx, Hudziak, Dolan, Ferdinand, and Boomsma, (2006)	+	?	?	+	-	+	+	+	+	+
Díaz-Orueta et al. (2014)	-	-	+	-	-	?	+	-	-	+

DuPaul, Jitendra, and Tresco (2006)	+	+	?	+	-	-	+	+	+	+
Elkins, Malone, Keyes, Iacono, and McGue (2011)	+	+	+	+	+	+	+	+	+	+
Gau, Chiu, Shang, Cheng, and Soong (2009)	-	-	?	-	-	+	+	+	-	+
Gökçe, Yusufoglu, Akin, and Ayaz (2017)	-	+	?	?	-	+	+	+	+	+
Graetz, Sawyer, and Baghurst (2005)	?	-	+	?	-	+	+	+	+	+
Günther, Herpertz-Dahlmaa, and Konrad (2010)	-	?	?	+	+	+	+	+	+	+
Günther, Knospe, Herpertz - Dahlman, and Konrad (2015)	-	+	+	-	-	+	+	+	+	+
Hartung et al. (2002)	+	+	?	+	-	+	+	+	+	+
Heckel, Clarke, Barry, McCarthy, and Selikowitz (2009)	-	-	+	-	-	+	+	-	+	+
Huang, Wang, and Chen (2012)	-	+	+	?	-	+	+	+	+	+
Isaksson, Ruchkin, and Lindblad (2016)	-	?	?	-	+	+	+	+	+	+
Lahey et al. (2007)	-	-	+	+	-	+	+	+	+	+
Lambek, Trillingsgaard, Kadesjo, Damm, and Thomsen (2010)	-	-	+	-	-	-	+	+	+	+
Lockwood, Marcotte, and Stern (2001)	-	+	?	-	-	+	+	+	+	+
Mahone, Mostofsky, Lasker, Zee, and Denckla, (2009)	+	+	?	?	+	+	+	+	+	+
Martel (2008)	+	-	+	-	-	+	+	+	+	+

Mayfield et al. (2016)	+	?	?	?	+	+	+	+	+	+
Montiel-Navia, Montiel-Barbero, and Peña (2007)	-	+	?	-	-	+	+	-	+	+
Muller et al. (2011a)	-	-	+	-	-	+	+	+	+	+
Muller et al. (2011b)	?	?	?	?	?	+	+	+	+	+
Newcorn et al. (2001)	?	+	?	?	?	+	+	-	+	+
Nigg, Blaskey, Huang-Pollock, and Rappley (2002)	+	+	?	+	+	+	+	-	-	+
Nolan, Volpe, Gadow, and Sprafin (1999)	-	-	?	?	-	+	+	-	-	+
O'Brien, Dowell, Mostofsky, Denckla, and Mahone (2010)	+	+	?	?	+	+	+	+	+	+
Øie, Hovik, Andersen, Czajkowski, and Skogli (2016)	-	+	+	?	?	+	+	+	+	+
Prout (2000)	+	+	+	-	-	+	+	+	+	+
Radonovich (2002)	-	?	?	?	?	+	-	+	+	+
Riddle et al. (2013)	-	-	+	+	-	+	+	+	+	+
Rosch, Dirlikov, and Mostofsky (2015)	+	+	?	?	-	+	+	+	+	+
Rucklidge (2006)	-	+	+	+	-	+	+	+	+	+
Rucklidge and Tannock (2001)	-	+	?	+	+	+	+	+	+	+
Rucklidge and Tannock (2002)	-	+	+	?	-	+	+	+	+	+
Rumsey (2004)	-	?	?	?	?	+	+	+	+	+
Seymour, Mostofsky, and Rosch (2016)	+	+	?	?	?	+	+	+	+	+
Sjöwall, Roth, Lindqvist, and Thorell (2013)	-	+	+	?	?	+	+	+	+	+

Skogli, Teicher, Andersen, Hovik, and Øie (2013)	-	+	?	-	-	+	+	+	+	+
Sonuga-Barke et al. (2007)	?	+	?	+	+	+	+	+	+	+
Sonuga-Barke and Rubia (2008)	?	-	?	?	?	+	+	+	+	-
Wang, Chen, and Huang (2015)	-	?	?	-	-	+	+	+	+	+
Wehmeier, Schacht, Escobar, Hervas, and Dickson (2012)	?	-	?	?	?	+	+	+	+	+
Wodka et al. (2007)	+	+	?	?	?	+	+	+	+	+
Wodka et al. (2008)	+	+	?	?	+	+	+	+	-	+
Yang, Jong, Chung, and Chen (2004)	-	+	+	-	-	+	+	+	+	+
Zhou, Yi, Kuang, and Fu (2006)	-	+	?	+	-	+	+	+	+	+

Note. - : High risk of bias, + : Low risk of bias, ?: Unclear risk of bias