

Table S1. Quality assessment of included studies**a)**

Study	Age comparability^a	Gender comparability^b	ADHD diagnosis^c	AUD diagnosis^d	Mood phase^e
Jhanda et al., 2018	+	-	+	?	+
Karahmet et al., 2013	-	-	+	?	+
Koc and Kesebir, 2014	-	-	+	?	+
McIntyre et al., 2010	+	-	+	+	?
Nierenberg et al., 2005	+	-	+	+	-
Pattanshetti et al., 2016	?	?	+	-	+
Perroud et al., 2014	-	+	+	+	-
Perugi et al., 2013	-	+	+	+	-
Pinna et al., 2019	-	-	+	-	?
Tamam et al., 2008	+	+	+	+	+
Torres et al., 2015	-	-	+	+	+

ADHD = Attention Deficit Hyperactivity Disorder; AUD = Alcohol Use Disorder; ^a difference in mean age ≤ 3 years = +; difference in mean age > 3 years = -; Unclear = ?; ^b difference in gender proportion $\leq 5\%$ = +; difference in gender proportion $> 5\%$ = -; unclear = ? ^c adequate instruments to assess ADHD = +; inadequate instruments to assess ADHD = -; unclear = ?; ^d appropriate diagnostic interviews to assess AUD = +; diagnoses of AUD based on non-structured, clinical evaluations or clinical chart / databases review = -; unclear = ?; ^e ADHD assessment in euthymia or during mood episode remission = +; ADHD assessment without mood state restriction = -; unclear = ?.

b)

Study	Age comparability (Mean age in the two groups)	Gender comparability (% of males in the two groups)	ADHD diagnosis	AUD diagnosis	Mood phase
Jhanda et al., 2018	BD + ADHD = 27.4 BD = 29.8	BD + ADHD = 83.3 % BD = 68.1 %	MINI DSM-IV	Unclear	Euthymia / in remission
Karaahmet et al., 2013	BD + ADHD = 34.3 BD = 37.8	BD + ADHD = 67.6 % BD = 44.6 %	SCID-I; Turgay's Adult ADD/ADHD Scale; WURS	Unclear	Euthymia / in remission
Koc and Kesebir, 2014	BD + ADHD = 37.3 BD = 44.7	BD + ADHD = 46.7 % BD = 35.7 %	Adult Attention Deficit and Hyperactivity Rating Scale	Unclear	Euthymia / in remission
McIntyre et al., 2010	BD + ADHD = 36.7 BD = 39.1	BD + ADHD = 38.7 % BD = 32.6 %	ASRS-1.1; MINI plus 5.0.0; WURS-25	MINI plus 5.0.0	Unclear
Nierenberg et al., 2005	BD + ADHD = 37.8 BD = 40.9	BD + ADHD = 64.4 % BD = 39.2 %	MINI 4.4	MINI 4.4	No mood restrictions
Pattanshetty et al., 2016	N/R	N/R	ASRS-1.1; ASRS-1.1 Symptom Checklist	diagnoses based on non- structured, clinical evaluations or clinical chart / databases re-view.	Euthymia / in remission
Perroud et al., 2014	BD + ADHD = 37.2 BD = 43.2	BD + ADHD = 44.4 % BD = 41.2 %	ASRS-1.1 Symptom Checklist; DIVA	MINI	No mood restrictions
Perugi et al., 2013	BD + ADHD = 38.5 BD = 43.2	BD + ADHD = 63.2 % BD = 58.4 %	ASRS-1.1	DSM-IV-TR diagnostic criteria	No mood restrictions
Pinna et al., 2019	BD + ADHD = 39.9 BD = 47.9	BD + ADHD = 65.9 % BD = 38.3 %	ASRS-1.1; DSM-IV-TR criteria	diagnoses based on non- structured, clinical evaluations or clinical chart / databases re-view.	Unclear
Tamam et al., 2008	BD + ADHD = 33.8 BD = 33.8	BD + ADHD = 51.2 % BD = 50 %	K-SADS-PL; SCID; WURS-25	SCID-I	Euthymia / in remission
Torres et al., 2015	BD + ADHD = 39 BD = 43.6	BD + ADHD = 58.6 % BD = 42.5 %	ASRS-1.1; CAADID; WURS	SCID-I	Euthymia / in remission

ADHD = Attention Deficit Hyperactivity Disorder; AUD = Alcohol Use Disorder; ASRS-1.1 = Adult Attention Deficit and Hyperactivity Self-Report Scale, version 1.1; CAADID = Conners' Adult ADHD Diagnostic Interview for DSM-IV; DIVA = Diagnostic Interview for ADHD in adults; DSM-IV = Diagnostic and Statistical Manual of Mental Disorders, fourth edition; DSM-IV-TR = Diagnostic and Statistical Manual of Mental Disorders, fourth edition, Text Revision; K-SADS-PL = Kiddie Schedule of Affective Disorders and Schizophrenia - Present/Lifetime; MINI = Mini International Neuropsychiatric Interview; MINI 4.4 = Mini International Neuropsychiatric Interview plus, version 4.4; MINI plus 5.0.0 = Mini International Neuropsychiatric Interview plus, version 5.0.0; N/R = Not Rated; SCID = Structured Clinical Interview; SCID-I = Structured Clinical Interview Axis I Disorders; Turgay's Adult ADD/ADHD Scale = Turgay's Turkish version of Adult ADD/ADHD DSM IV-Based Diagnostic Screening and Rating Scale; WURS = Wender Utah Rating Scale; WURS-25 = Wender Utah Rating Scale - 25-item version.