



A systematic review and meta-analysis of transdiagnostic cognitive behavioural therapies for emotional disorders

In the format provided by the authors and unedited

Supplementary Materials

“A systematic review and meta-analysis of transdiagnostic cognitive behavioral therapies for emotional disorders”

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Supplementary Tables

Supplementary Table 1. Overview of content and setup of the investigated TD-CBT protocols

Protocol	Trans-diagnostic core construct	Theoretical Basis	Number of sessions	Clinician level of training	Treatment Components / Modules							Studies with Adaptations
					Psycho-education	Motivation	Cognitive restructuring	Exposure	Behavioral activation	Relapse prevention	Mindfulness	
Individual Setting												
Unified Protocol (UP) (Barlow et al., 2011)	negative affect	CBT + emotion regulation	12-18	doctoral students, post-doc fellows, licensed therapists	x	x	x	x		x	x	- brief version in combination with the NICE guideline for common mental health disorders (Corpas et al., 2021) - ESTEEM (Pachankis et al., 2022)
Transdiagnostic Behavior Therapy (TBT) (Gros, 2014)	avoidance	common treatment components / themes across CBT protocols	12	masters- or doctoral-level project therapists that received extensive training	x	x		x		x		
Emotion Regulation Therapy (ERT) (Mennin & Fresco, 2014)	emotion regulation	mechanism-targeted CBT integrating findings from affect science	20	doctoral students, post-doc fellows, licensed therapists	x		x	x		x	x	

UP, Internet-based negative affect version (Talbure et al., 2018)	CBT	9	specifically trained graduate students	x	x	x	x	x	x	x	- 12 modules of Internet-based UP plus DBT strategies (González-Robles et al., 2020) - 12/16 modules of Internet-based UP plus DBT strategies (16 module version: additional positive affect regulation strategies) (Díaz-García et al., 2021)
Mindfulness-Enhanced iCBT (Kladnitski et al., 2020)	not specified	6	clinical psychologist	x		x	x	x	x	x	- optional additional material (sleep, assertiveness)
Internet-based Mindfulness Intervention for Emotional Distress (iMIED) (Li et al., 2023)	mindfulness	8	integrates rationales and practices from UP and mindfulness-based interventions	x		x	x			x	

Note. Several studies investigated a TD-CBT treatment that aggregated components and themes from several different CBT protocols but cannot be considered a stand-alone TD-CBT protocol (Erickson et al., 2007; Fernández-Rodríguez et al., 2022; Kunst et al., 2022; Roy-Byrne et al., 2010).

Supplementary Table 2. Search strings for all databases that were included in the systematic search

	Search string
Pubmed & MEDLINE	("transdiagnostic"[Text Word] OR "unified"[Text Word] OR "unspecific"[Text Word]) AND ("anxi*" [Text Word] OR "depress*" [Text Word] OR "emotional disorder*" [Text Word] OR "common mental health disorder*" [Text Word]) AND ("CBT"[Text Word] OR "cognitive behavioral therapy"[Text Word] OR "cognitive behavioural therapy"[Text Word] OR "cognitive behavior therapy"[Text Word] OR "cognitive behaviour therapy"[Text Word] OR "Internet-Based Intervention"[Text Word] OR "internet-based"[Text Word] OR "internetbased"[Text Word] OR "ICBT"[Text Word] OR "internet*" [Text Word] OR "web-based"[Text Word] OR "webbased"[Text Word] OR "individual"[Text Word] OR "group"[Text Word]) AND ("randomized controlled trial"[Text Word] OR "randomised controlled trial"[Text Word] OR "RCT"[Text Word] OR "control group"[Text Word] OR "control condition"[Text Word])
PsycINFO	TX(("transdiagnostic" OR "unified" OR "unspecific") AND ("anxi*" OR "depress*" OR "emotional disorder*" OR "common mental health disorder*") AND ("CBT" OR "cognitive behavior#ral therapy" OR "cognitive behavio#r therapy" OR "Internet-Based Intervention" OR "internet?based" OR "ICBT" OR "internet*" OR "web?based" OR "individual" OR "group")) AND ("randomi?ed controlled trial" OR "RCT" OR "control group" OR "control condition"))
Google Scholar	-
medRxiv (incl. bioRxiv)	for term "transdiagnostic AND "common mental health disorder" AND "cognitive behavioral therapy" AND "randomized controlled trial"
OSF Preprints	(transdiagnostic OR unified OR unspecific) AND (anxi* OR depress* OR "emotional disorder*" OR "common mental health disorder*") AND (CBT OR "cognitive behavioral therapy" OR "cognitive behavioural therapy" OR "cognitive behavior therapy" OR "cognitive behaviour therapy" OR "internet-based intervention" OR internet-based OR "internet based" OR ICBT OR internet* OR web-based OR "web based" OR individual OR group) AND ("randomized controlled trial" OR "randomised controlled trial" OR RCT OR "control group" OR "control condition")

Supplementary Table 3. Overview of reasons for exclusion for each study that was full-text screened

	Reason for exclusion											comment
	secondary analysis	no clinician-established diagnosis	different primary diagnosis	not based on trans-diagnostic CBT principles	tailored treatment	outcome measure of anxiety or depression not available	no RCT	study protocol	meta-analysis	factual text	other	
Aghighi et al. (2022)						x						
Aguilera-Martín et al. (2022)								x				
Alatiq (2021)							x					
Allen et al. (2009)	x											
Andersen et al. (2016)									x			
Applebaum et al. (2022)		x										
Arai et al. (2022)							x					
Arani et al. (2022)							x					
Arch et al. (2012)				x								ACT is compared to traditional CBT
Arch et al. (2013)				x								intervention group: mindfulness-based stress reduction, comparison was CBT - but not transdiagnostic

Gros et al. (2016)										x		
Gros et al. (2017)							x					
Gros et al. (2019)							x					
Guliani et al. (2022)	x											
Gulliver et al. (2021)		x										
Hadjistavropoulos et al. (2020)		x										
Hadjistavropoulos, Thiessen et al. (2020)		x										
Hagberg et al. (2023)		x										
Harrer et al. (2021)				x								
Hoiles et al. (2022)		x										
Hvenegaard et al. (2019)											focused on depression, not in line with “broad-spectrum” CBT approach of unified TD treatments	
Ito et al. (2016)							x					
Johansson et al. (2012)					x							
Johnson et al. (2017)											not in line with “broad-spectrum” CBT approach of unified TD treatments	

Uwadiale (2022)		x										
Vøllestad et al. (2011)											mindfulness-based stress reduction	
Waite et al. (2012)											focus on low self-esteem, not in line with “broad-spectrum” CBT approach of unified TD treatments	
Weinzimmer et al. (2022)							x					
Weisberg et al. (2022)				x								
Weiss et al. (2015)		x										main target: PTSD
Wetherell et al. (2009)				x								
Wilner et al. (2020)	x											
Woods et al. (2020)	x											
Wuthrich & Rapee (2013)											inclusion criterion: ≥ 60 years	
Wuthrich et al. (2016)											inclusion criterion: ≥ 60 years	
Zabel et al. (2022)											focus on low self-esteem, not in line with “broad-spectrum” CBT approach of unified TD treatments	

Supplementary Table 4. Within-group effect sizes for TD treatments at pretest compared to the end of treatment and follow-up (FU) for depression and anxiety

		Depression								Anxiety							
	Setting	<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F²</i>	<i>Q</i>	<i>p</i>	<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F²</i>	<i>Q</i>	<i>p</i>
Pre to	All	52	1.14	<0.001	1.01	1.28	84.35	284.5	<0.001	52	1.08	<0.001	0.94	1.22	87.88	300.79	<0.001
Post-Treatment	Individual	14	1.11	<0.001	0.88	1.34	58.65	35.92	<0.001	14	1.20	<0.001	0.92	1.49	72.86	40.45	<0.001
	Group	19	1.18	<0.001	0.87	1.49	94.49	91.83	<0.001	19	1.25	<0.001	0.79	1.70	97.52	143.77	<0.001
	Internet-based	19	1.19	<0.001	1.00	1.38	80.79	113.08	<0.001	19	1.00	<0.001	0.85	1.15	76.69	95.08	<0.001
Pre to 3-month FU	All	28	1.38	<0.001	1.12	1.64	92.42	227.58	<0.001	26	1.35	<0.001	1.08	1.62	93.45	194.62	<0.001
	Individual	6	1.47	<0.001	0.98	1.97	74.44	17.36	0.004	5	1.67	<0.001	0.99	2.35	82.96	18.71	<0.001
	Group	10	1.33	<0.001	0.71	1.95	97.20	55.30	<0.001	9	1.65	<0.001	0.69	2.61	98.72	85.91	<0.001
	Internet-based	12	1.42	<0.001	1.08	1.76	89.66	113.86	<0.001	12	1.19	<0.001	0.95	1.43	83.00	75.45	<0.001
Pre to 6-month FU	All	18	0.85	<0.001	0.75	0.94	32.62	22.98	0.150	19	0.91	<0.001	0.78	1.05	71.30	54.01	<0.001
	Individual	8	0.80	<0.001	0.63	0.98	45.70	11.33	0.125	8	0.92	<0.001	0.75	1.10	43.12	12.88	0.075
	Group	8	0.89	<0.001	0.78	1.00	0.05	7.18	0.410	9	0.88	<0.001	0.66	1.09	80.88	38.83	<0.001
	Internet-based	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pre to 12-month FU	All	10	1.36	<0.001	1.01	1.72	93.13	118.86	<0.001	9	1.19	<0.001	0.91	1.48	91.00	75.94	<0.001
	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	3	1.03	<0.001	0.53	1.53	75.08	8.34	0.015	-	-	-	-	-	-	-	-
	Internet-based	5	1.76	<0.001	1.31	2.20	88.57	35.71	<0.001	5	1.37	<0.001	0.89	1.84	92.07	45.40	<0.001
Pre to 24-month FU	All	5	1.75	<0.001	1.29	2.21	93.07	91.78	<0.001	5	1.47	<0.001	1.04	1.90	93.75	74.50	<0.001
	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Internet-based	4	1.96	<0.001	1.63	2.29	72.87	11.84	0.008	4	1.62	<0.001	1.21	2.03	86.32	19.49	<0.001

Supplementary Table 5. Between-group effect sizes of depressive and anxiety symptoms for transdiagnostic treatments compared to control groups at the end of treatment, excluding outliers.

		Depression							Anxiety								
		<i>k</i>	<i>g</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>I²</i>	<i>Q</i>	<i>p</i>	<i>k</i>	<i>g</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>I²</i>	<i>Q</i>	<i>p</i>
TD-CBT (all treatment formats) vs.	control	49	0.63	<0.001	0.53	0.73	49.82	96.71	<0.001	39	0.71	<0.001	0.61	0.81	33.80	57.41	0.022
	DS	9	0.09	0.269	-0.07	0.25	53.96	17.82	0.023	8	0.08	0.145	-0.03	0.18	3.79	5.38	0.613
	TAU	16	0.74	<0.001	0.58	0.9	48.48	28.07	0.021	13	0.71	<0.001	0.53	0.88	47.85	22.14	0.036
	other	12	0.24	0.002	0.09	0.39	0	6.50	0.838	13	0.14	0.128	-0.04	0.31	17.67	15.33	0.224
	WL	18	1.00	<0.001	0.81	1.20	54.03	37.55	0.003	17	0.85	<0.001	0.73	0.97	0.86	20.62	0.194
Individual TD-CBT vs.	control	16	0.88	<0.001	0.58	1.18	63.69	39.85	<0.001	12	1.08	<0.001	0.77	1.38	49.78	21.31	0.030
	DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TAU	4	1.08	<0.001	0.73	1.43	0	3.11	0.374	3	1.33	0.002	0.49	2.16	74.24	7.23	0.027
	other	5	0.49	0.011	0.11	0.86	25.73	5.99	0.200	5	0.25	0.187	-0.12	0.62	26.40	5.28	0.259
	WL	7	1.40	<0.001	0.87	1.93	71.24	23.89	<0.001	6	1.38	<0.001	0.74	2.02	77.84	18.05	0.003
Group-based TD-CBT vs.	control	19	0.52	<0.001	0.37	0.67	57.61	42.14	0.001	15	0.47	<0.001	0.34	0.61	33.84	19.09	0.162
	DS	3	0.16	0.306	-0.15	0.48	59.79	4.98	0.083	3	0.14	0.331	-0.14	0.41	49.59	3.69	0.158
	TAU	7	0.75	<0.001	0.43	1.07	75.36	18.03	0.006	7	0.72	<0.001	0.34	1.10	83.27	25.84	<0.001
	other	6	0.23	0.017	0.04	0.41	0.01	5.50	0.358	6	0.07	0.669	-0.24	0.37	49.27	9.49	0.091
	WL	6	1.14	0.048	0.01	2.27	95.76	27.50	<0.001	6	1.52	0.033	0.12	2.92	96.85	66.10	<0.001
Internet-based TD-CBT vs.	control	17	0.69	<0.001	0.54	0.84	52.20	34.10	0.005	15	0.66	<0.001	0.51	0.82	43.10	25.26	0.032
	DS	4	0.08	0.563	-0.18	0.33	70.37	11.37	0.010	4	0.03	0.662	-0.11	0.17	0	0.47	0.925
	TAU	6	0.79	<0.001	0.46	1.12	69.03	15.73	0.008	6	0.76	<0.001	0.43	1.09	69.15	16.09	0.007
	other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WL	9	0.86	<0.001	0.72	1.01	0	7.89	0.444	9	0.83	<0.001	0.66	1.00	20.87	11.07	0.198

Supplementary Table 6. Between-group effect sizes of depressive and anxiety symptoms for transdiagnostic treatments compared to control groups at follow-up, excluding outliers.

			Depression								Anxiety							
			<i>k</i>	<i>g</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F</i> ²	<i>Q</i>	<i>p</i>	<i>k</i>	<i>g</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F</i> ²	<i>Q</i>	<i>p</i>
3-month FU	TD-CBT (all treatment formats) vs.	control	21	0.34	<0.001	0.23	0.45	33.57	30.02	0.069	20	0.25	0.002	0.10	0.41	65.48	51.69	<0.001
		DS-CBT	5	0.11	0.376	-0.14	0.37	77.81	15.73	0.003	5	-0.01	0.912	-0.18	0.16	52.62	8.48	0.075
		TAU	6	0.42	<0.001	0.26	0.59	6.45	6.77	0.238	4	0.49	<0.001	0.22	0.76	51.43	6.23	0.101
		other	9	0.23	0.019	0.04	0.42	20.26	9.11	0.333	8	0.24	0.009	0.06	0.42	0	9.69	0.207
		WL	6	1.23	<0.001	0.52	1.94	88.67	35.76	<0.001	5	1.16	0.014	0.23	2.09	90.47	39.86	<0.001
	Individual TD- CBT vs. Group-based TD-CBT vs. Internet-based TD-CBT vs.	control	7	1.12	<0.001	0.48	1.77	86.76	32.19	<0.001	4	2.3	<0.001	1.27	3.33	77.67	12.3	0.006
		control	11	0.28	<0.001	0.14	0.42	22.82	15.95	0.101	10	0.42	<0.001	0.20	0.65	61.8	22.45	0.008
		control	9	0.18	0.126	-0.05	0.42	73.17	27.64	<0.001	9	-0.05	0.409	-0.17	0.07	2.55	7.89	0.444
		control	16	0.19	<0.001	0.09	0.28	11.22	18.92	0.217	18	0.21	<0.001	0.1	0.32	31.92	24.72	0.101
		control	3	-0.01	0.937	-0.23	0.21	39.89	3.28	0.194	3	0.04	0.650	-0.15	0.24	22.99	2.33	0.312
6-month FU	TD-CBT (all treatment formats) vs.	TAU	4	0.26	<0.001	0.15	0.38	0	0.74	0.864	4	0.32	0.001	0.13	0.52	47.22	5.67	0.129
		other	7	0.15	0.162	-0.06	0.37	10.92	6.13	0.409	8	0.19	0.050	0	0.38	0	6.19	0.518
		WL	3	0.63	0.019	0.1	1.15	47.71	3.82	0.148	4	0.62	0.065	-0.04	1.27	77.44	11.9	0.008
		control	9	0.24	0.012	0.05	0.43	44.45	14.07	0.080	9	0.26	<0.001	0.15	0.36	0.01	9.4	0.309
		control	8	0.16	0.033	0.01	0.31	16.49	9.45	0.222	9	0.17	0.065	-0.01	0.36	46.53	14.41	0.072
	Individual TD- CBT vs. Group-based TD-CBT vs. Internet-based TD-CBT vs.	control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		control	10	0.30	<0.001	0.22	0.39	0	3.71	0.930	11	0.22	<0.001	0.12	0.32	24.83	10.52	0.396
		DS-CBT	4	0.13	0.247	-0.09	0.36	58.91	7.48	0.058	4	0.08	0.253	-0.06	0.23	0	0.87	0.832
		TAU	4	0.35	<0.001	0.24	0.47	0	0.30	0.960	4	0.36	<0.001	0.24	0.48	0	0.70	0.872
		other	3	0.23	0.030	0.02	0.44	0	0.03	0.985	3	0.21	0.044	0.01	0.42	0	0.10	0.950
12-month FU	TD-CBT (all treatment formats) vs.	WL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		control	3	0.33	<0.001	0.21	0.45	0	0.58	0.748	3	0.34	<0.001	0.20	0.47	9.71	1.67	0.434

	Group-based TD-CBT vs. Internet-based TD-CBT vs.	control	3	0.30	0.006	0.09	0.50	0	0.59	0.744	3	0.27	0.012	0.06	0.48	0	0.24	0.888	
	TD-CBT vs.	control	5	0.17	0.098	-0.03	0.38	54.63	8.93	0.063	5	0.11	0.116	-0.03	0.24	0	1.95	0.746	
24-month FU	TD-CBT (all treatment formats) vs.	control	5	0.20	0.111	-0.05	0.46	80.63	16.44	0.002	5	0.14	0.092	-0.02	0.31	56.46	8.63	0.071	
		DS-CBT	4	0.20	0.259	-0.14	0.54	81.90	16.15	0.001	4	0.11	0.344	-0.12	0.35	62.33	8.25	0.041	
		TAU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		WL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Individual TD-CBT vs.	control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Group-based TD-CBT vs.	control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Internet-based TD-CBT vs.	control	4	0.20	0.259	-0.14	0.54	81.9	16.15	0.001	4	0.11	0.344	-0.12	0.35	62.33	8.25	0.041	

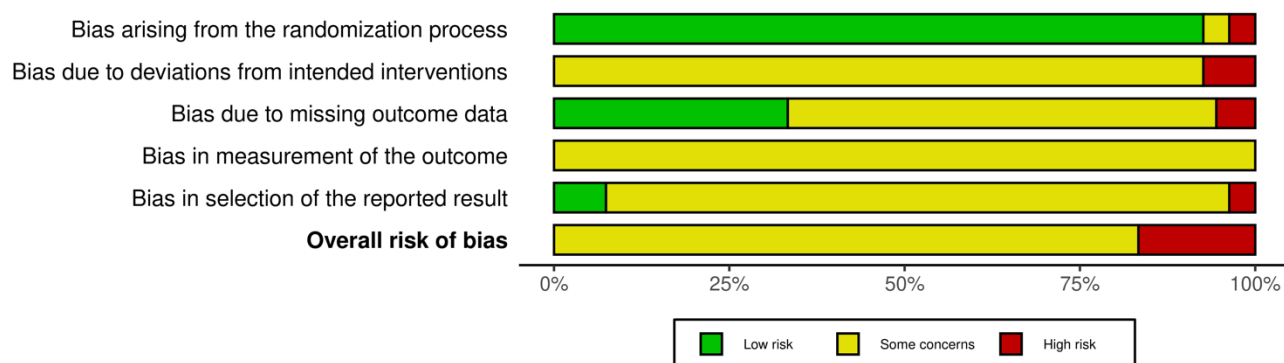
Supplementary Table 7. Within-group effect sizes for TD treatments at pretest compared to the end of treatment and follow-up (FU) for depression and anxiety applying 0.3 as a correlation

	TD-CBT Setting	Depression								Anxiety							
		<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F²</i>	<i>Q</i>	<i>p</i>	<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>F²</i>	<i>Q</i>	<i>p</i>
Pre to	All	52	1.14	<0.001	1.01	1.27	83.75	279.75	<0.001	52	1.07	<0.001	0.93	1.21	87.25	296.21	<0.001
Post-	Individual	14	1.11	<0.001	0.87	1.34	57.60	35.24	<0.001	14	1.20	<0.001	0.91	1.49	72.30	39.86	<0.001
Treatment	Group	19	1.17	<0.001	0.86	1.47	94.14	87.52	<0.001	19	1.24	<0.001	0.79	1.70	97.46	140.17	<0.001
	Internet-based	19	1.19	<0.001	1.00	1.38	80.75	112.91	<0.001	19	1.00	<0.001	0.85	1.15	76.57	94.69	<0.001
Pre to 3-	All	28	1.38	<0.001	1.12	1.64	92.26	225.81	<0.001	26	1.35	<0.001	1.08	1.62	93.29	193.19	<0.001
month FU	Individual	6	1.48	<0.001	0.98	1.98	73.42	17.34	0.004	5	1.67	<0.001	0.99	2.36	81.89	18.71	<0.001
	Group	10	1.33	<0.001	0.71	1.95	97.10	53.81	<0.001	9	1.65	<0.001	0.69	2.60	98.71	84.36	<0.001
	Internet-based	12	1.42	<0.001	1.08	1.76	89.66	113.86	<0.001	12	1.19	<0.001	0.95	1.43	83.00	75.45	<0.001
Pre to 6-	All	18	0.84	<0.001	0.75	0.94	32.56	22.84	0.155	19	0.91	<0.001	0.78	1.05	70.32	53.59	<0.001
month FU	Individual	8	0.80	<0.001	0.62	0.98	44.43	11.02	0.138	8	0.93	<0.001	0.75	1.10	41.73	12.41	0.088
	Group	8	0.89	<0.001	0.78	1.00	9.39	7.18	0.410	9	0.88	<0.001	0.66	1.09	80.88	38.83	<0.001
	Internet-based	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pre to 12-	All	10	1.37	<0.001	1.02	1.72	92.48	112.31	<0.001	9	1.19	<0.001	0.91	1.48	90.20	70.54	<0.001
month FU	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	3	1.05	<0.001	0.56	1.54	71.60	7.16	0.028	-	-	-	-	-	-	-	-
	Internet-based	5	1.76	<0.001	1.32	2.20	87.58	29.84	<0.001	5	1.37	<0.001	0.90	1.84	91.44	38.55	<0.001
Pre to 24-	All	5	1.75	<0.001	1.29	2.21	92.76	85.53	<0.001	5	1.47	<0.001	1.04	1.90	93.44	69.57	<0.001
month FU	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Internet-based	4	1.96	<0.001	1.63	2.29	72.87	11.84	0.008	4	1.62	<0.001	1.21	2.03	86.32	19.49	<0.001

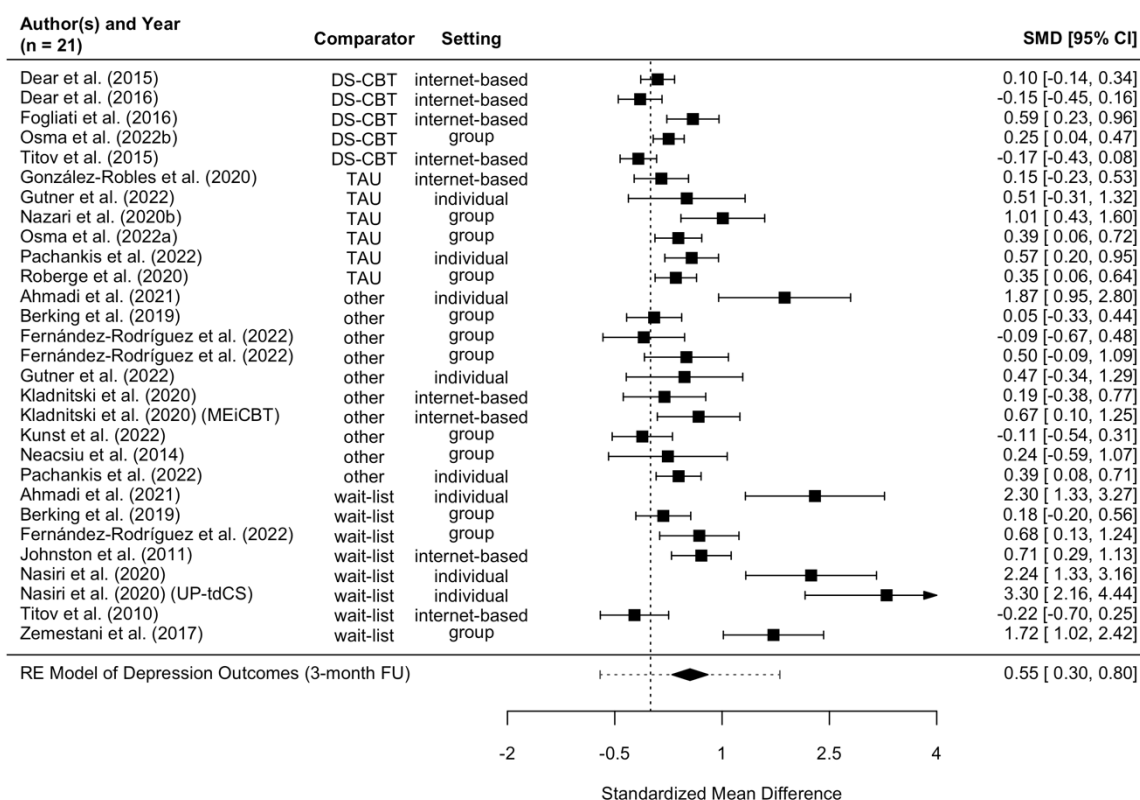
Supplementary Table 8. Within-group effect sizes for TD treatments at pretest compared to the end of treatment and follow-up (FU) for depression and anxiety applying 0.7 as a correlation

	TD-CBT Setting	Depression								Anxiety							
		<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>I²</i>	<i>Q</i>	<i>p</i>	<i>k</i>	<i>d_{SMC}</i>	<i>p</i>	<i>LL</i>	<i>UL</i>	<i>I²</i>	<i>Q</i>	<i>p</i>
Pre to	All	52	1.15	<0.001	1.02	1.28	85.10	290.68	<0.001	52	1.09	<0.001	0.94	1.23	88.54	306.39	<0.001
Post-	Individual	14	1.11	<0.001	0.88	1.35	60.17	36.83	<0.001	14	1.20	<0.001	0.92	1.49	73.68	41.31	<0.001
Treatment	Group	19	1.18	<0.001	0.87	1.50	94.87	97.21	<0.001	19	1.25	<0.001	0.79	1.71	97.58	147.90	<0.001
	Internet-based	19	1.19	<0.001	1.01	1.38	80.86	113.33	<0.001	19	1.00	<0.001	0.85	1.16	76.87	95.68	<0.001
Pre to 3-	All	28	1.38	<0.001	1.12	1.64	92.66	229.96	<0.001	26	1.35	<0.001	1.08	1.63	93.62	196.25	<0.001
month FU	Individual	6	1.47	<0.001	0.98	1.96	75.83	17.38	0.004	5	1.67	<0.001	0.99	2.34	84.33	18.72	<0.001
	Group	10	1.33	<0.001	0.71	1.96	97.34	57.01	<0.001	9	1.65	<0.001	0.69	2.61	98.73	87.65	<0.001
	Internet-based	12	1.42	<0.001	1.08	1.76	89.66	113.86	<0.001	12	1.19	<0.001	0.95	1.43	83.00	75.45	<0.001
Pre to 6-	All	18	0.85	<0.001	0.76	0.94	32.78	23.21	0.143	19	0.91	<0.001	0.78	1.05	72.71	54.67	<0.001
month FU	Individual	8	0.81	<0.001	0.64	0.98	47.71	11.75	0.109	8	0.92	<0.001	0.76	1.09	45.42	13.55	0.060
	Group	8	0.89	<0.001	0.78	1.00	9.39	7.18	0.410	9	0.88	<0.001	0.66	1.09	80.88	38.83	<0.001
	Internet-based	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pre to 12-	All	10	1.36	<0.001	1.00	1.71	93.95	127.69	<0.001	9	1.19	<0.001	0.90	1.48	92.01	84.00	<0.001
month FU	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	3	1.01	<0.001	0.51	1.52	79.15	10.43	0.005	-	-	-	-	-	-	-	-
	Internet-based	5	1.75	<0.001	1.30	2.20	89.69	45.06	<0.001	5	1.36	<0.001	0.88	1.84	92.90	57.54	<0.001
Pre to 24-	All	5	1.75	<0.001	1.29	2.21	93.40	99.20	<0.001	5	1.47	<0.001	1.04	1.90	94.08	80.49	<0.001
month FU	Individual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Group	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Internet-based	4	1.96	<0.001	1.63	2.29	72.87	11.84	0.008	4	1.62	<0.001	1.21	2.03	86.32	19.49	<0.001

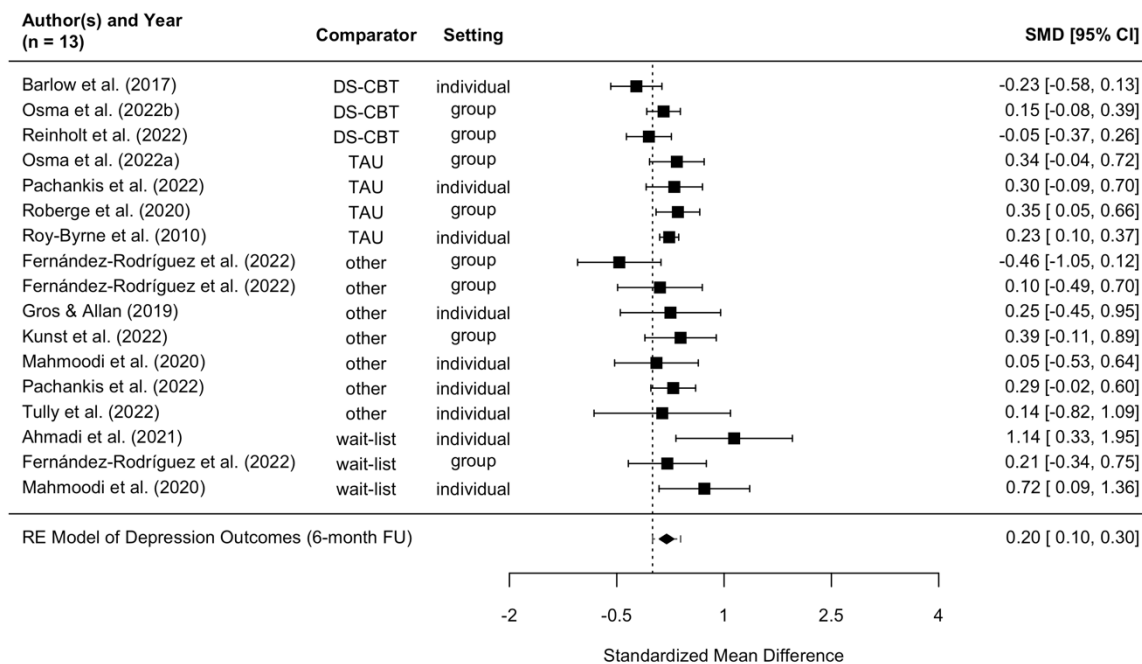
Supplementary Figures



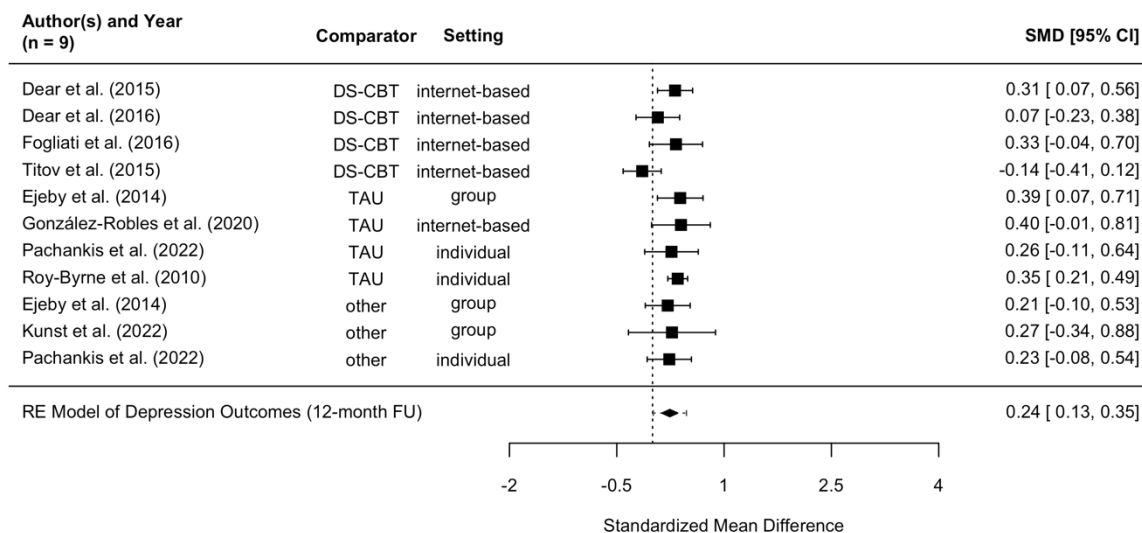
Supplementary Figure 1. Summary plot of risk of bias assessment



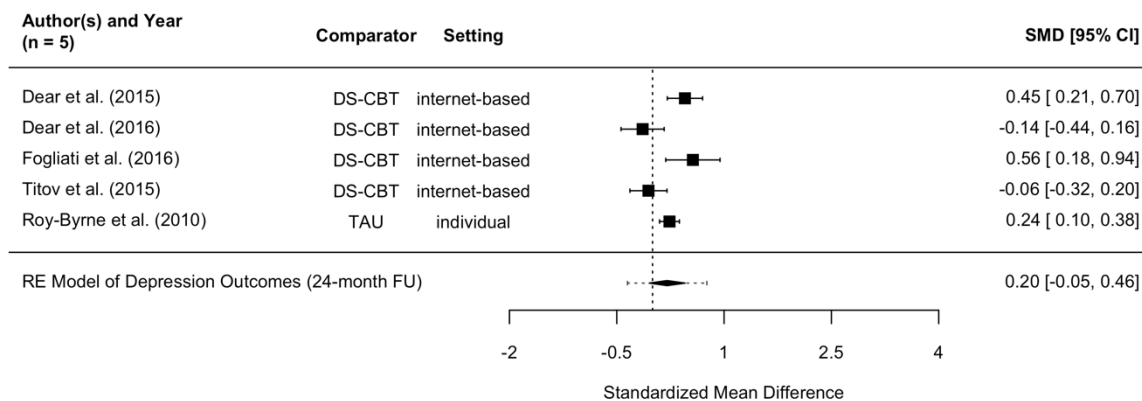
Supplementary Figure 2. Forest plot for depression comparing TD-CBT vs. controls at 3-month follow-up



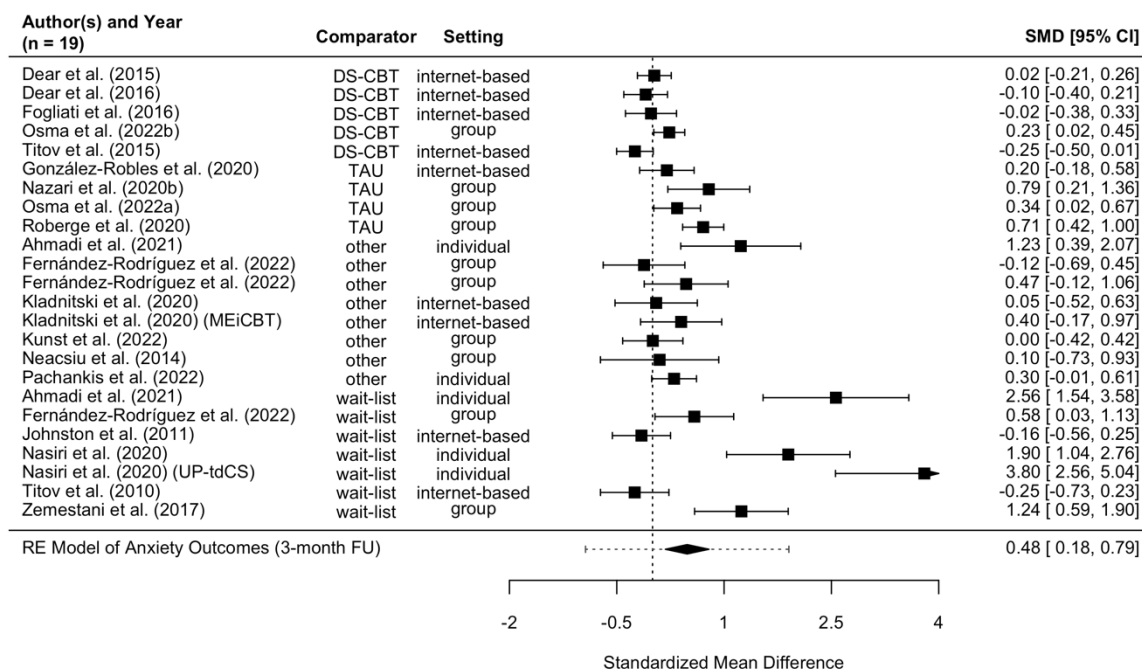
Supplementary Figure 3. Forest plot for depression comparing TD-CBT vs. controls at 6-month follow-up



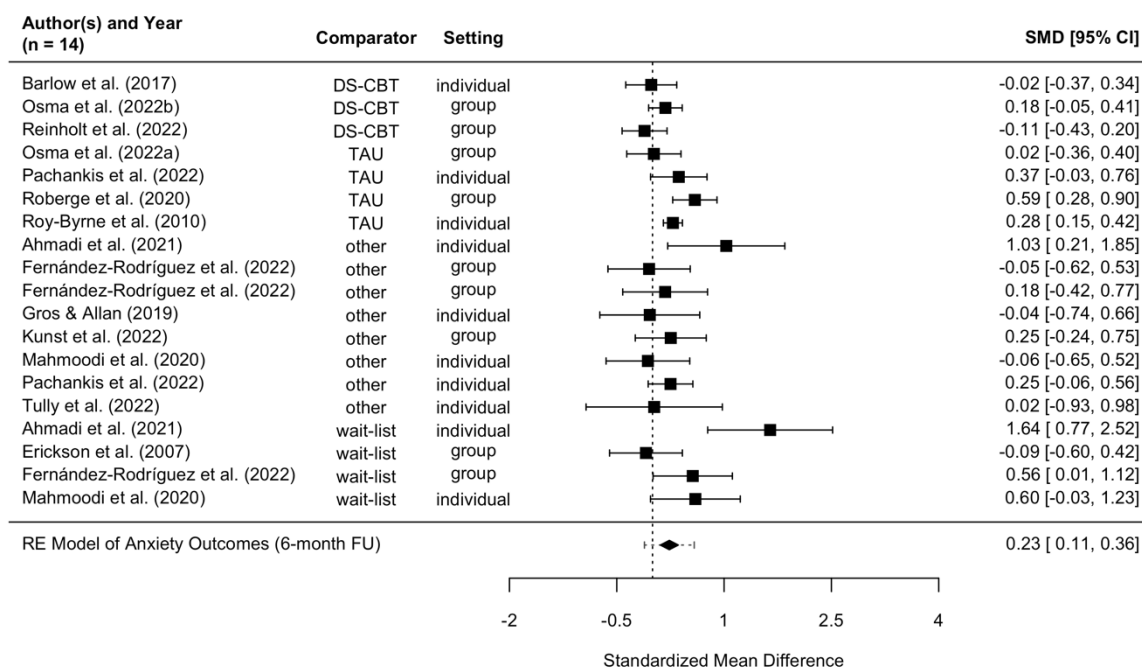
Supplementary Figure 4. Forest plot for depression comparing TD-CBT vs. controls at 12-month follow-up



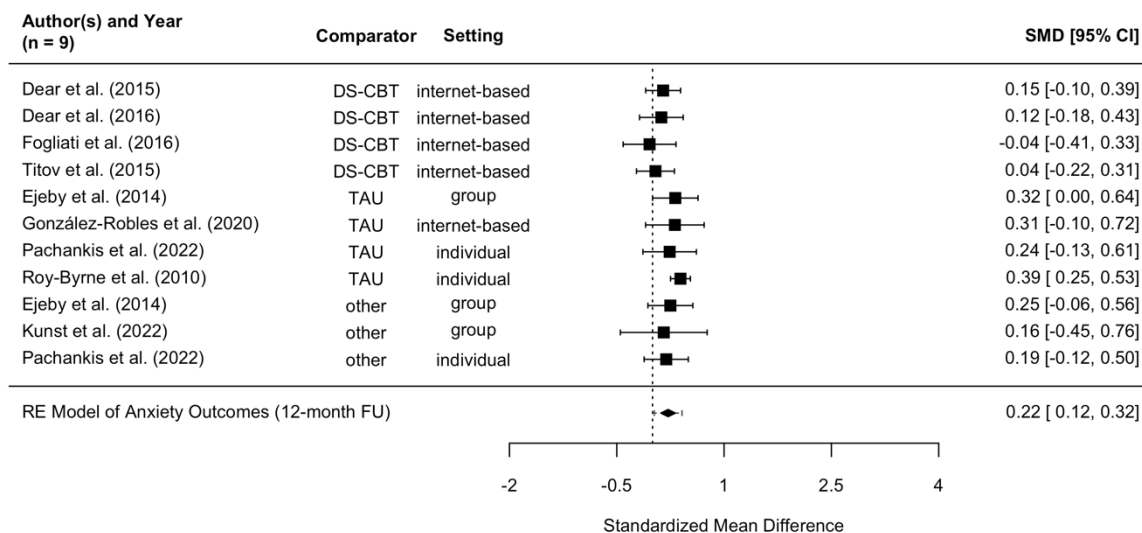
Supplementary Figure 5. Forest plot for depression comparing TD-CBT vs. controls at 24-month follow-up



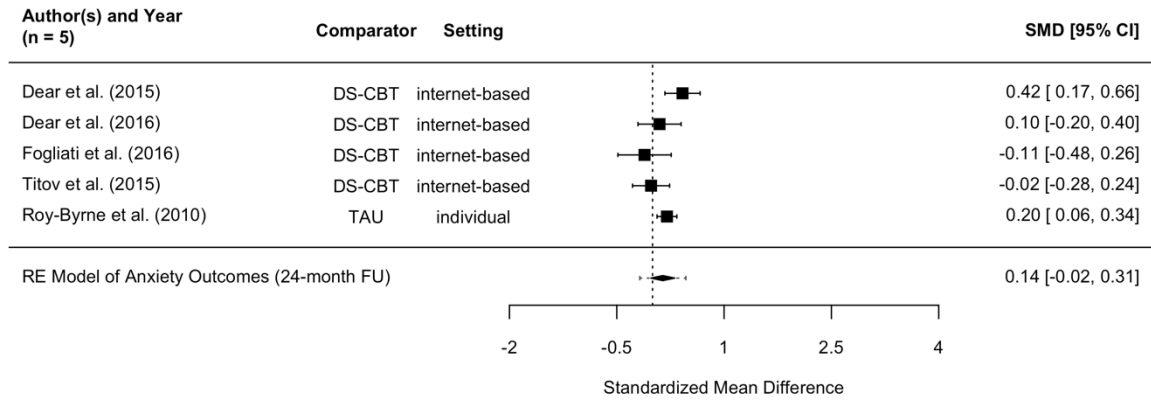
Supplementary Figure 6. Forest plot for anxiety comparing TD-CBT vs. controls at 3-month follow-up



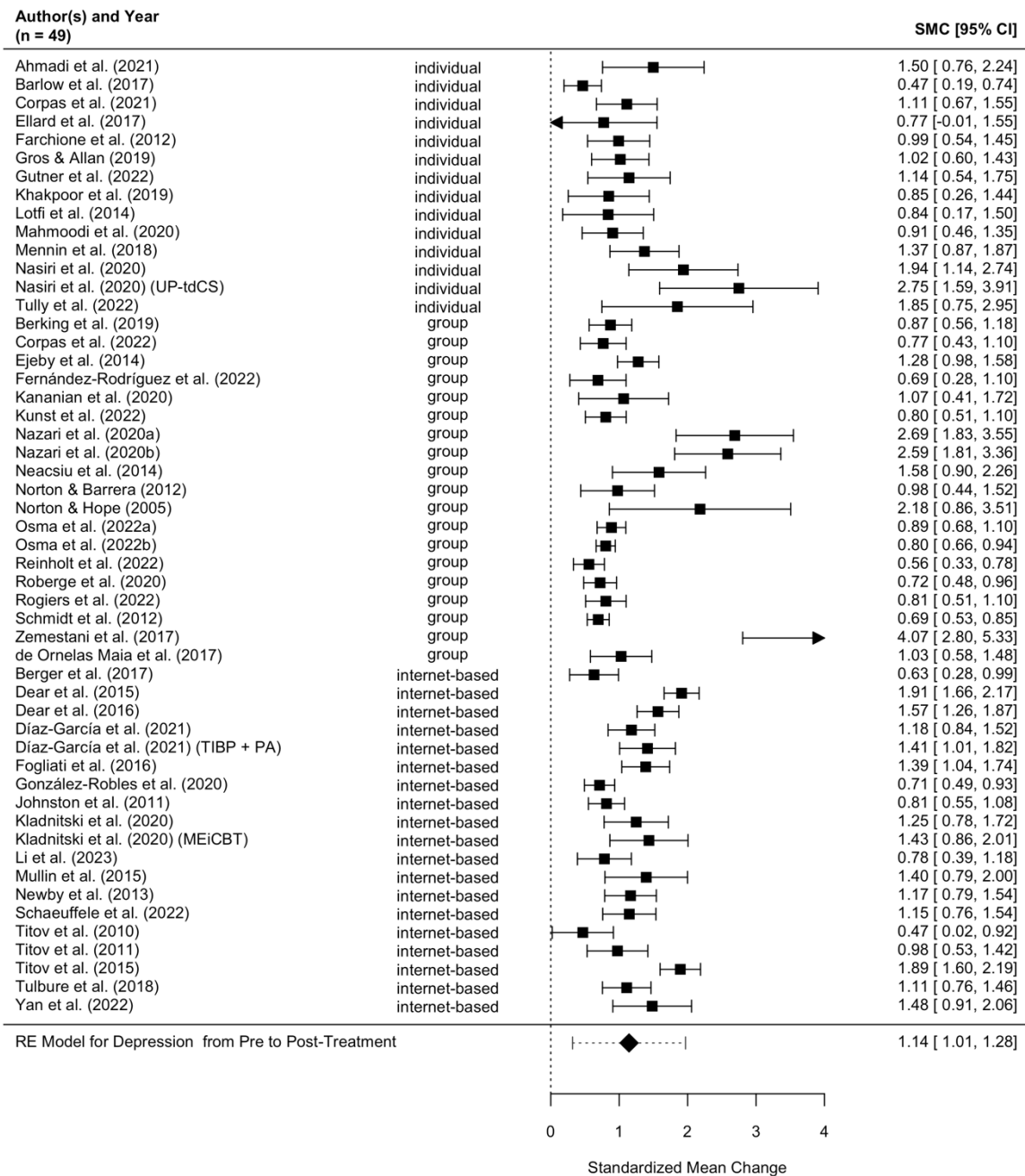
Supplementary Figure 7. Forest plot for anxiety comparing TD-CBT vs. controls at 6-month follow-up



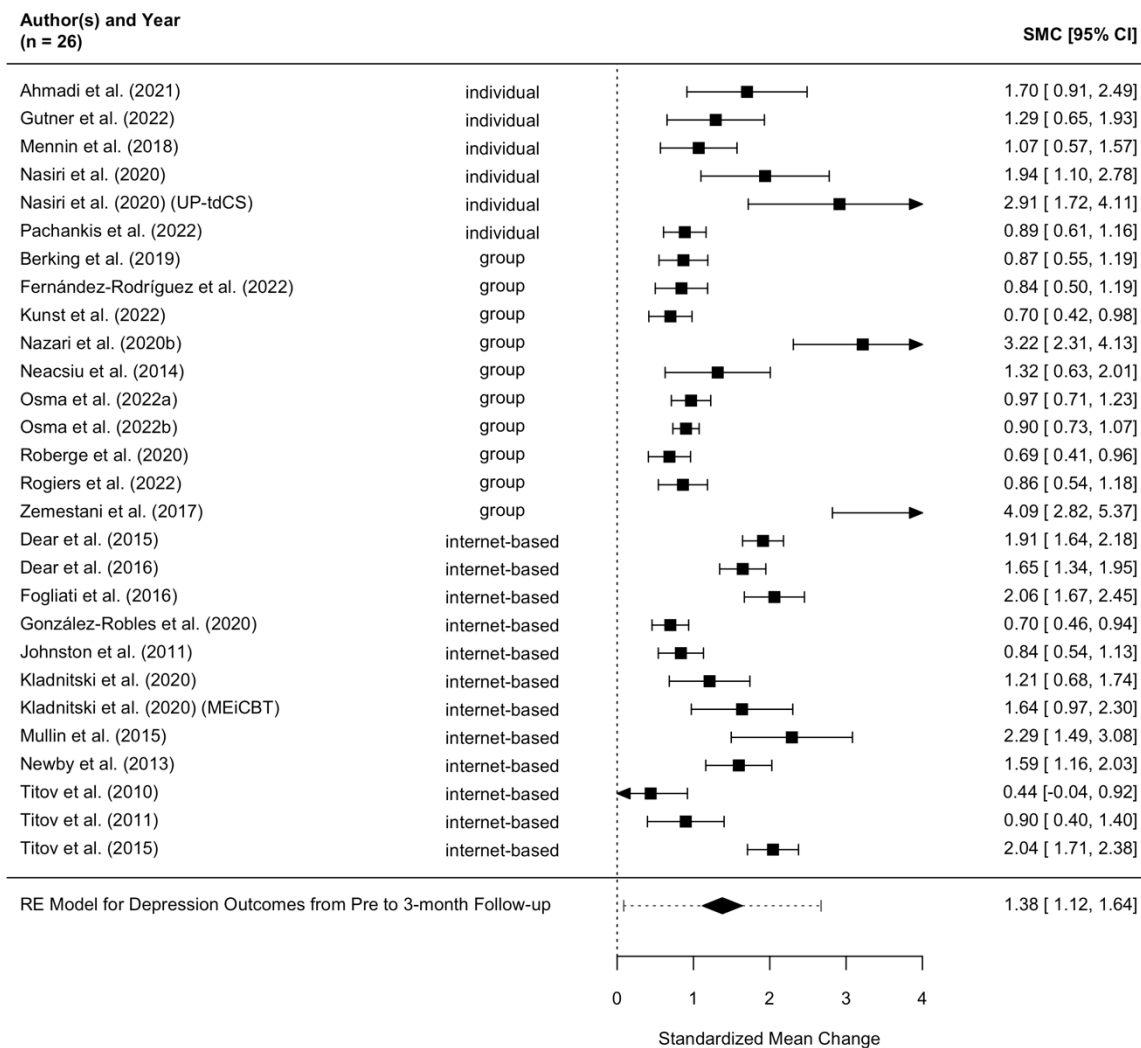
Supplementary Figure 8. Forest plot for anxiety comparing TD-CBT vs. controls at 12-month follow-up



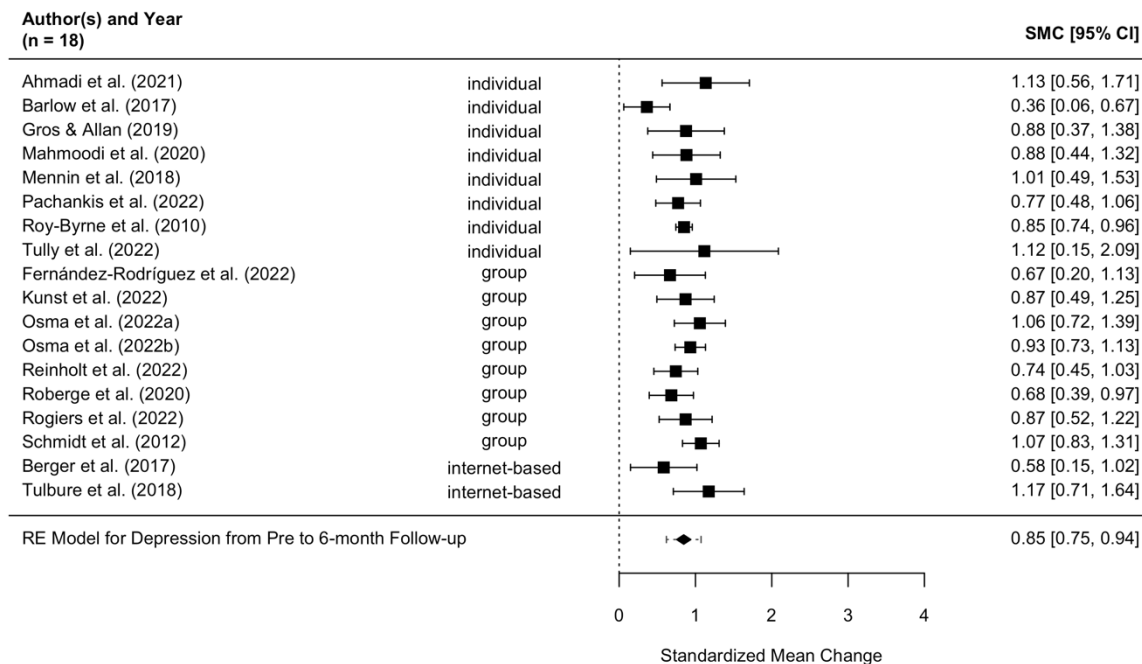
Supplementary Figure 9. Forest plot for anxiety comparing TD-CBT vs. controls at 24-month follow-up



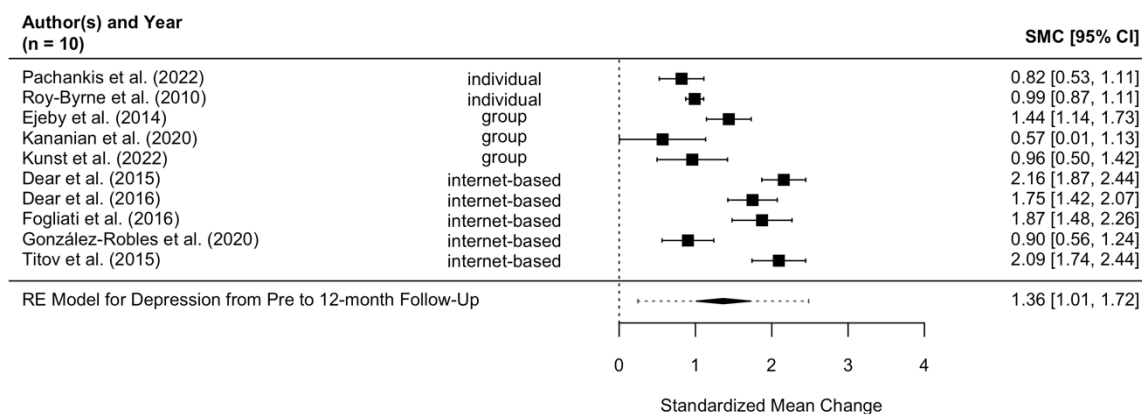
Supplementary Figure 10. Forest plot for depression from pre- to post-treatment



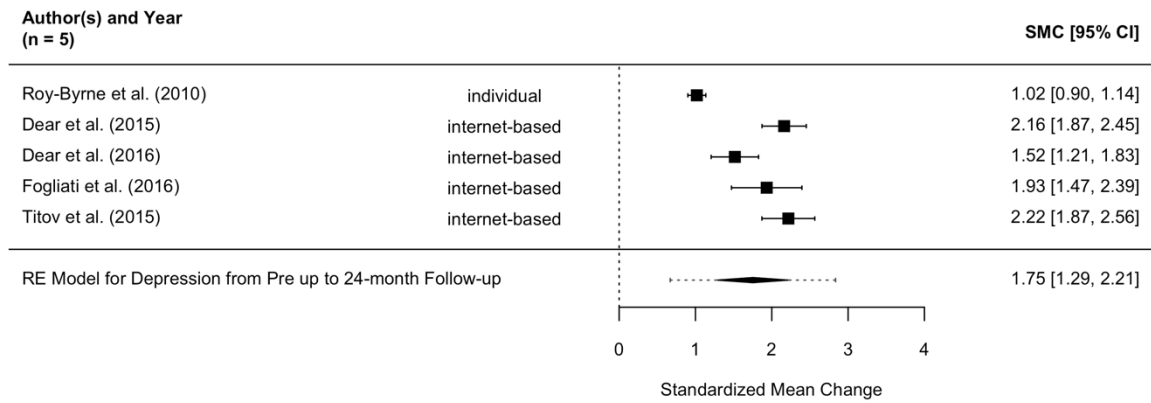
Supplementary Figure 11. Forest plot for depression from pre-treatment to 3-month follow-up



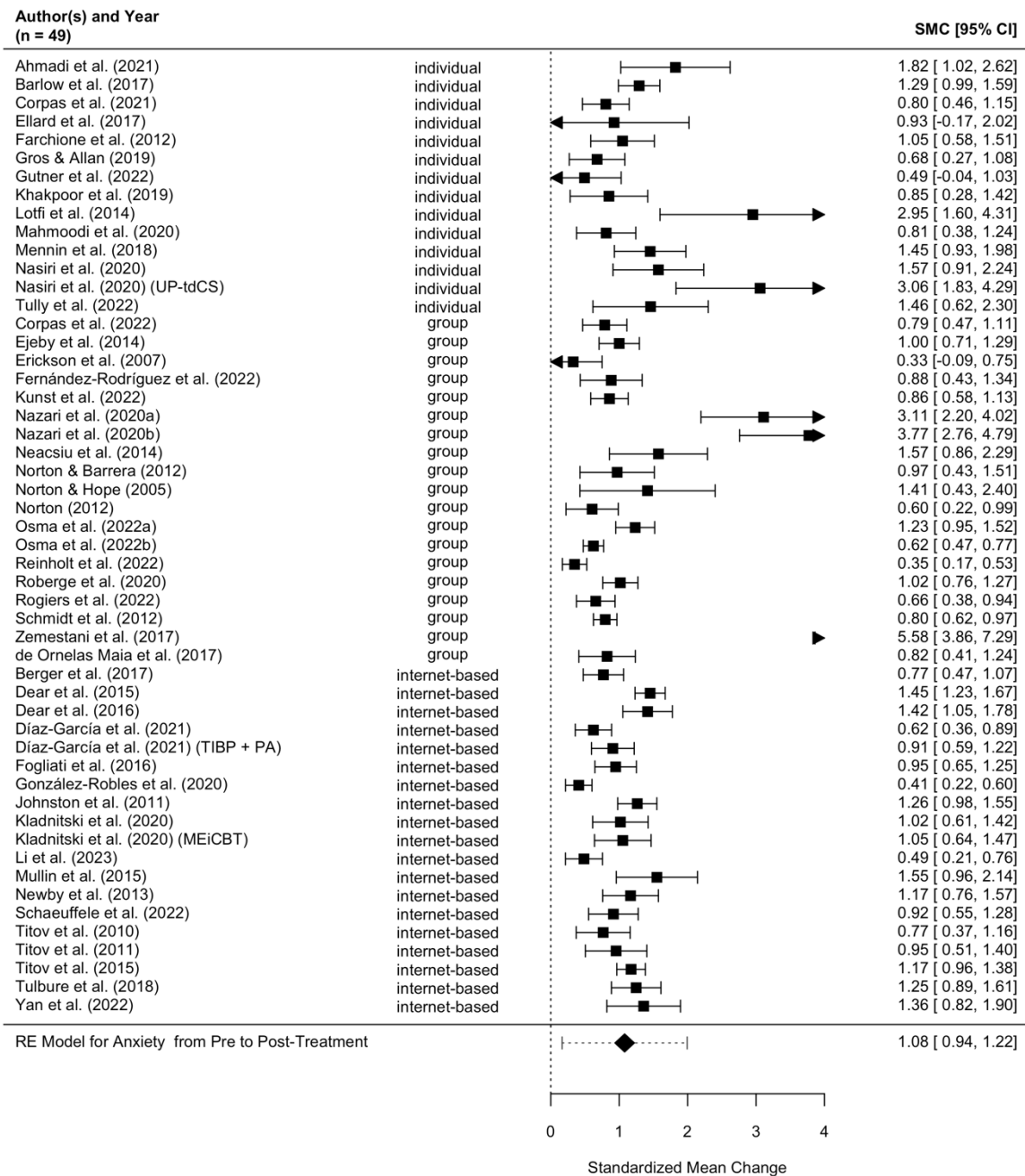
Supplementary Figure 12. Forest plot for depression from pre-treatment to 6-month follow-up



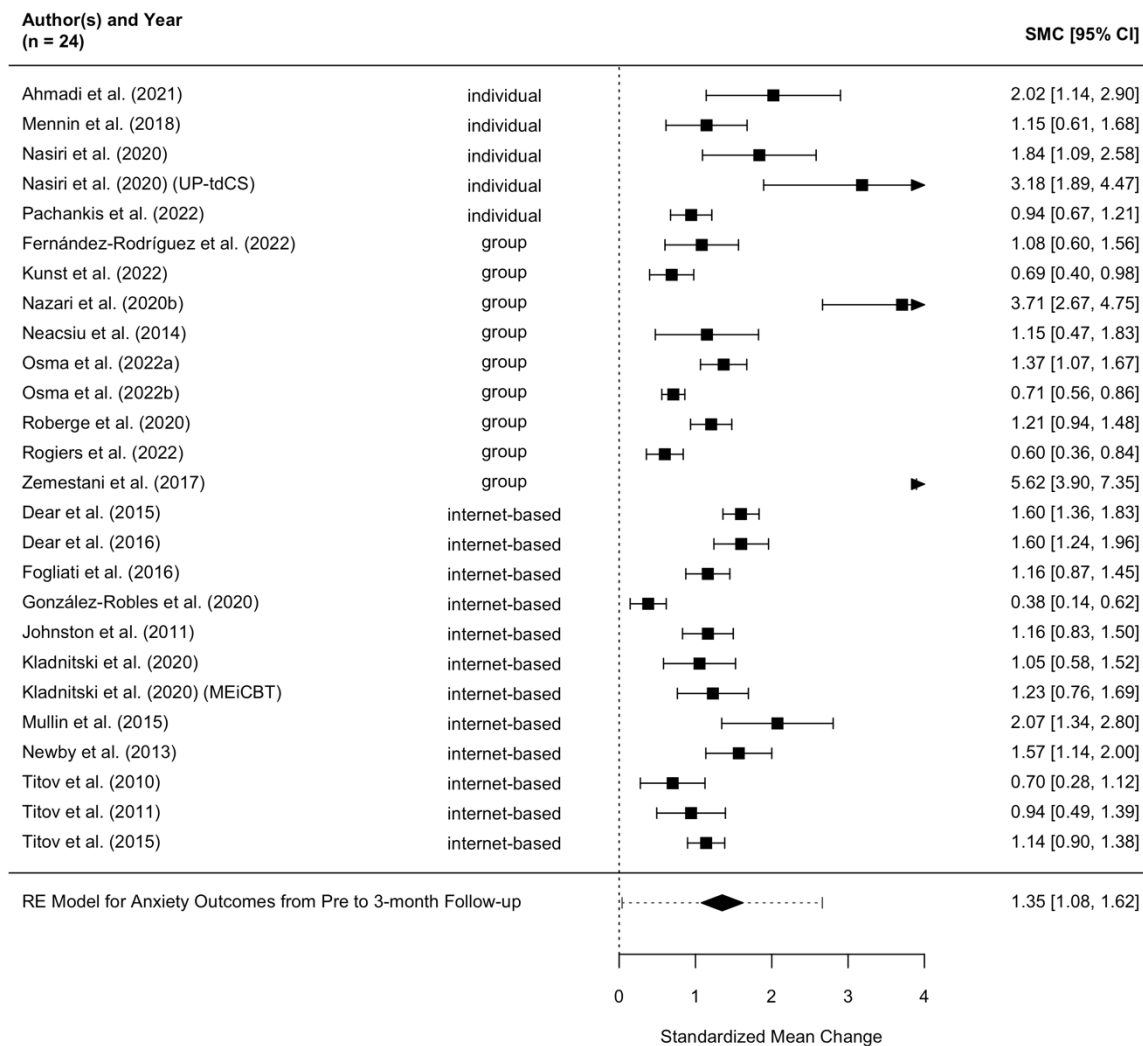
Supplementary Figure 13. Forest plot for depression from pre-treatment to 12-month follow-up



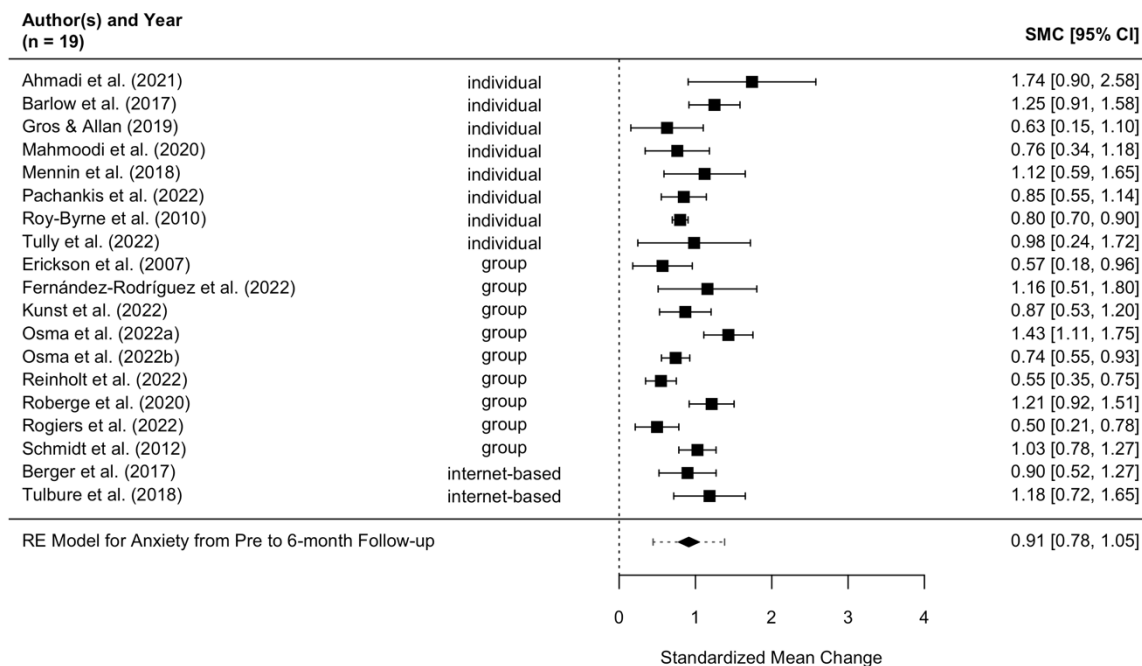
Supplementary Figure 14. Forest plot for depression from pre-treatment up to 24-month follow-up



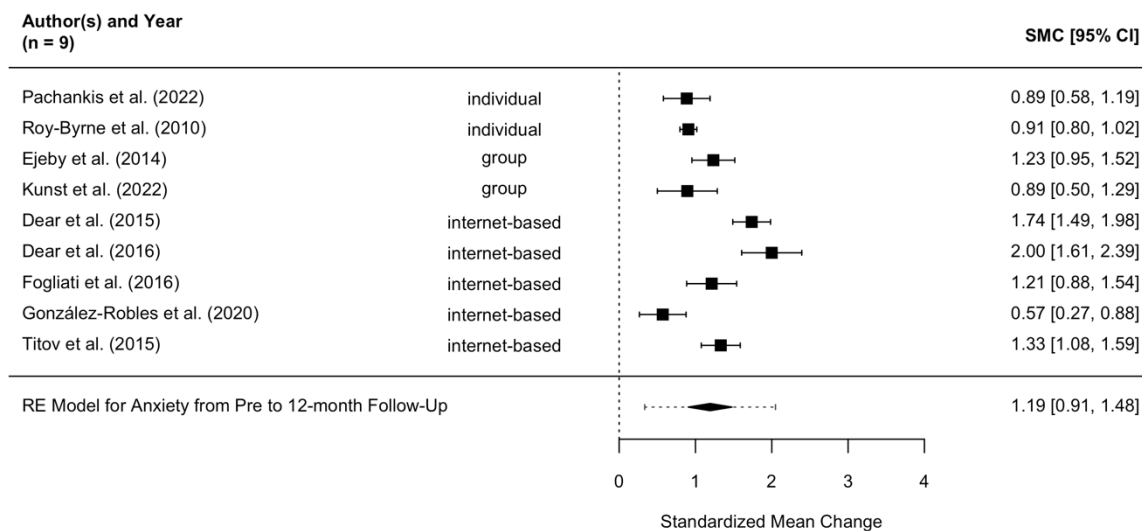
Supplementary Figure 15. Forest plot for anxiety from pre- to post-treatment



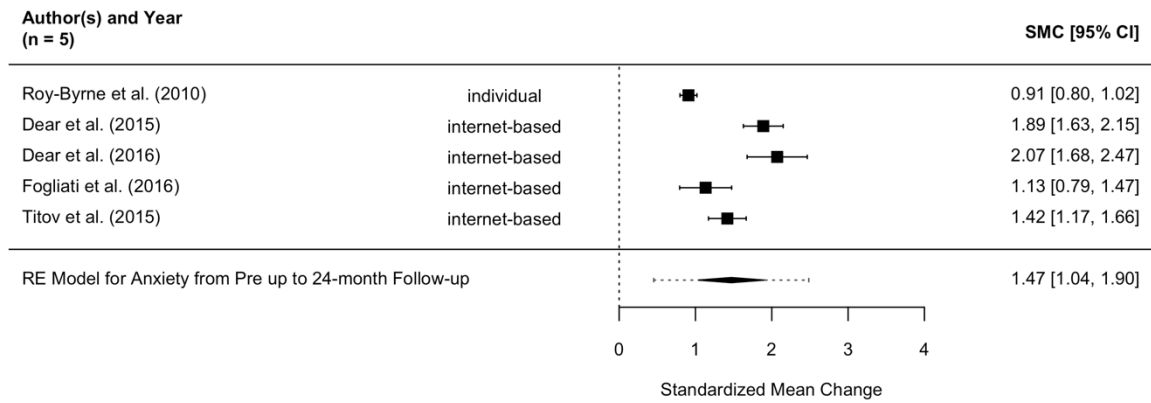
Supplementary Figure 16. Forest plot for anxiety from pre-treatment to 3-month follow-up



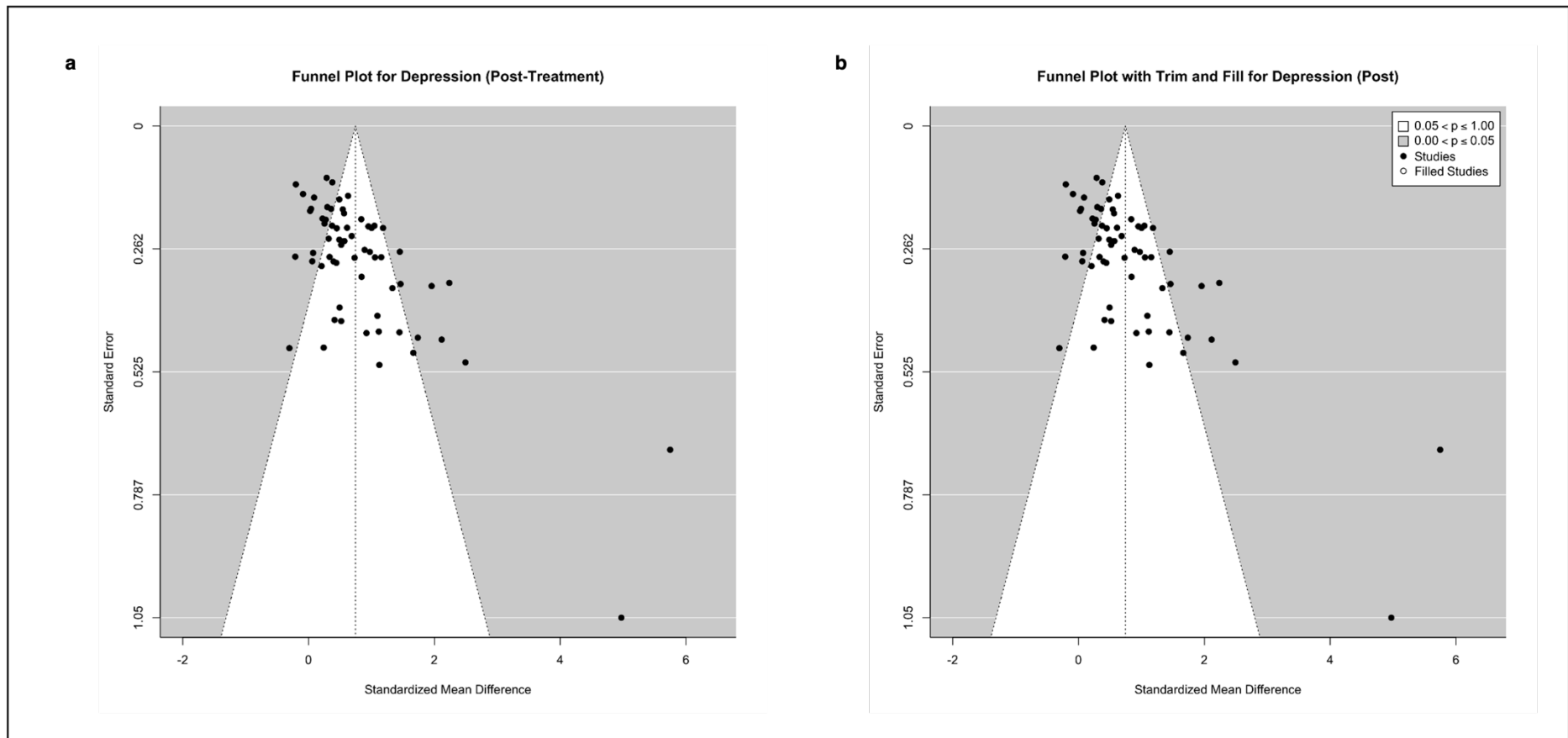
Supplementary Figure 17. Forest plot for anxiety from pre-treatment to 6-month follow-up



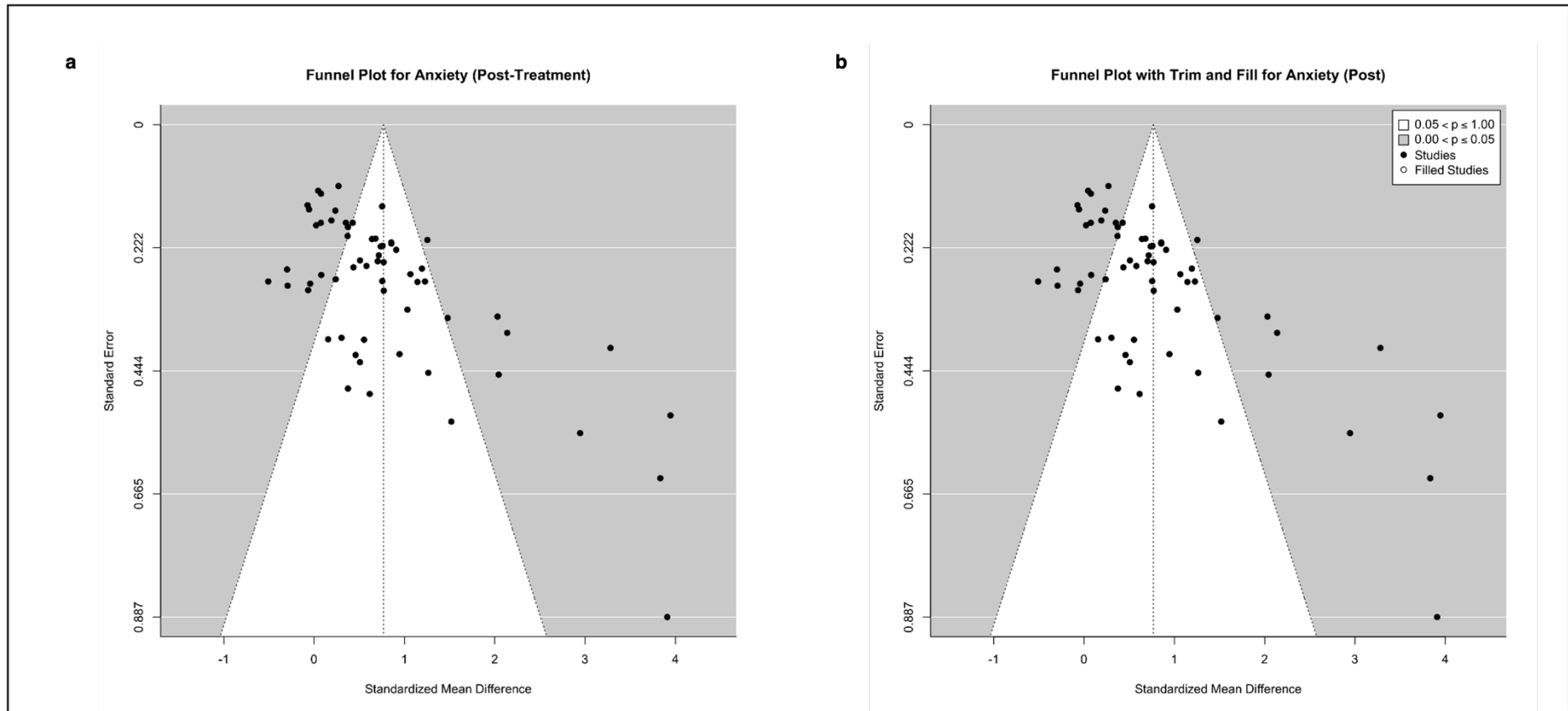
Supplementary Figure 18. Forest plot for anxiety from pre-treatment to 12-month follow-up



Supplementary Figure 19. Forest plot for anxiety from pre-treatment up to 24-month follow-up



Supplementary Figure 20. Controlled Effects: Funnel plots for depression, a) without and b) with Trim and Fill Method



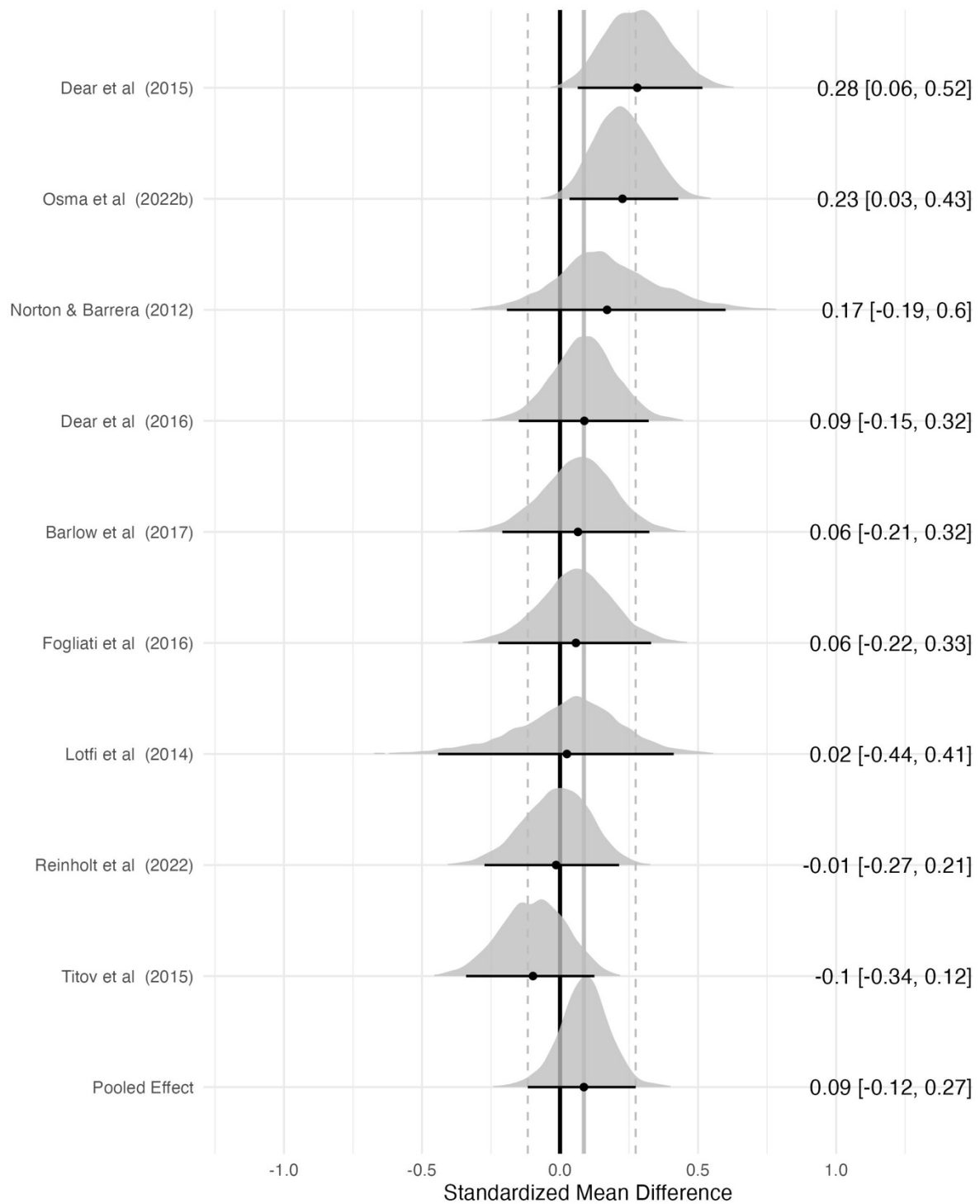
Supplementary Figure 21. Controlled Effects: Funnel plots for anxiety, a) without and b) with Trim and Fill Method

Additional Bayesian Analyses

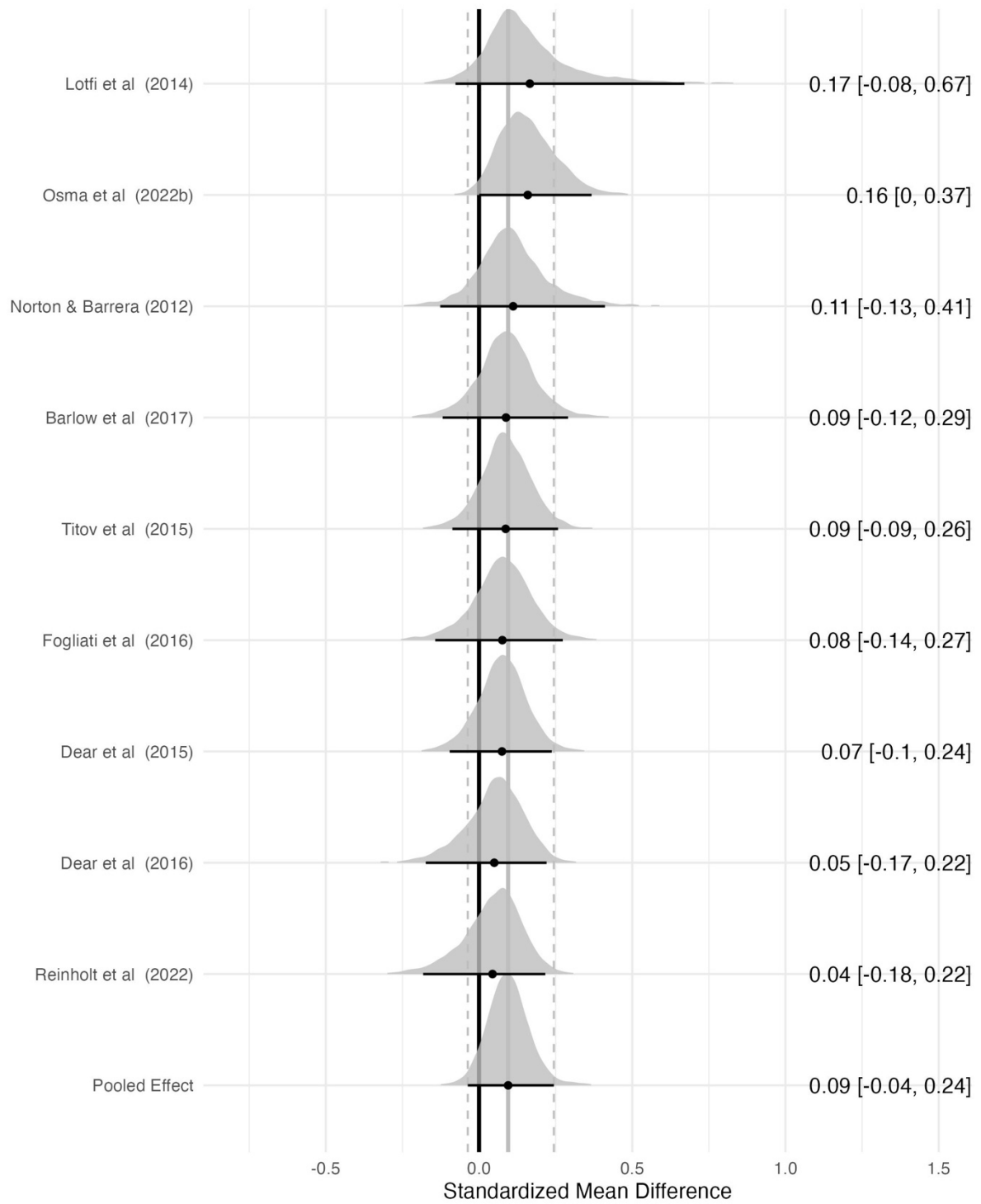
1. Statistical Procedure

We corroborated the comparison between TD-CBT and DS-CBT for anxiety and depression post-treatment with additional Bayesian analyses. Using the brms-package, we applied a random-effects model and ran the analyses with 4000 iterations. Weakly informative priors were selected based on previous meta-analytic research (Harrer et al., 2021). For the distribution, we chose a normal distribution with a mean of 0 and a standard deviation of 1. This prior would imply that – in line with findings of meta-analytic comparisons of two active treatments - we expect approx. 95% of the effect size distribution to be values between -2 and 2. For the variance parameter, we chose a Half-Cauchy prior and set it to 0.5 (Williams et al., 2018). Half-Cauchy distributions are heavy tailed which makes less extreme values more likely. To assess the sensitivity of our analysis to different priors, we conducted a sensitivity analysis using alternative prior distributions. We considered a non-informative uniform prior as well as a stronger weakly informative prior to evaluate how different assumptions impact our results. Analysis code is shared on OSF.

1.1 Forest Plots of Comparisons of TD-CBT and DS-CBT

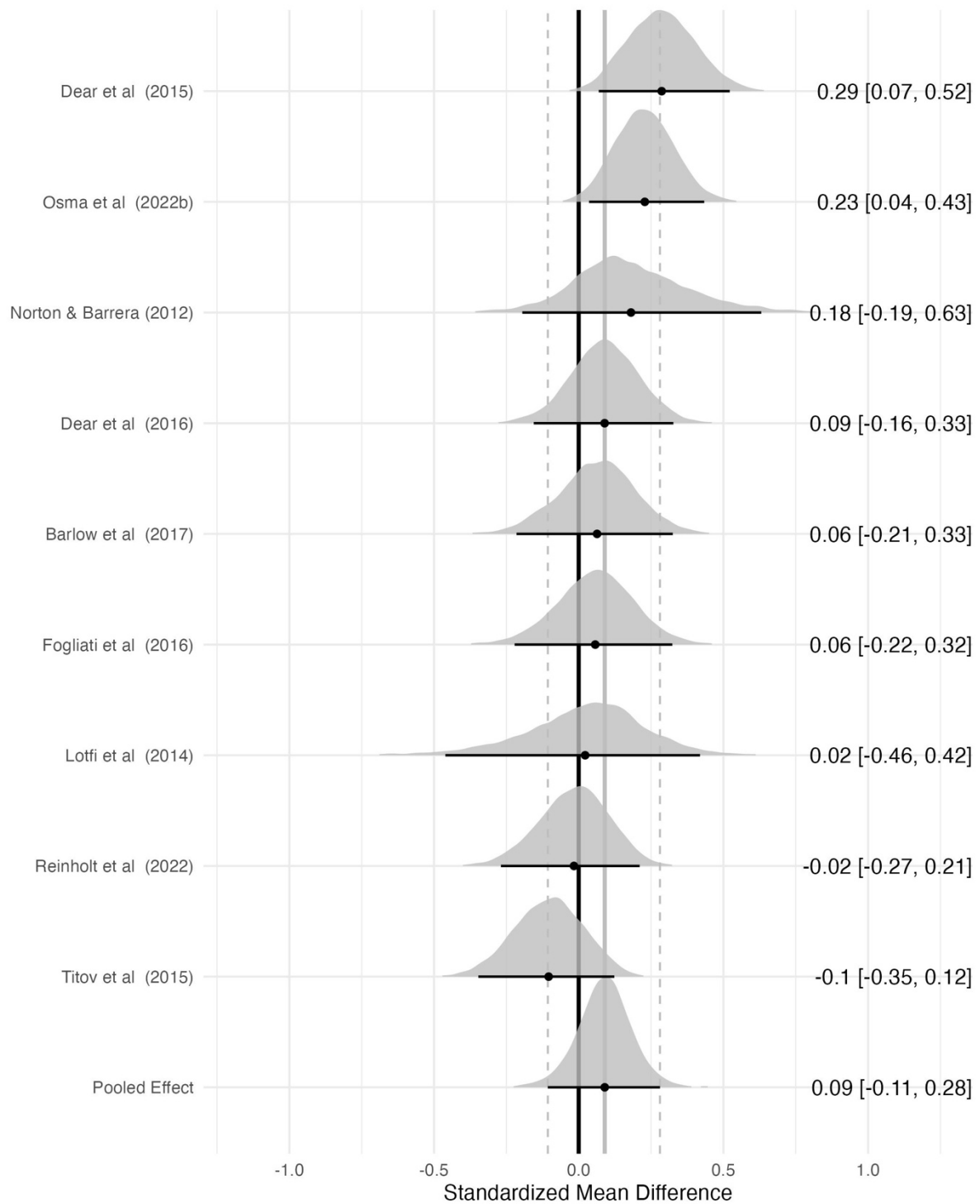


Supplementary Figure 22. Forest plot for depression comparing TD-CBT and DS-CBT (Bayesian analyses)

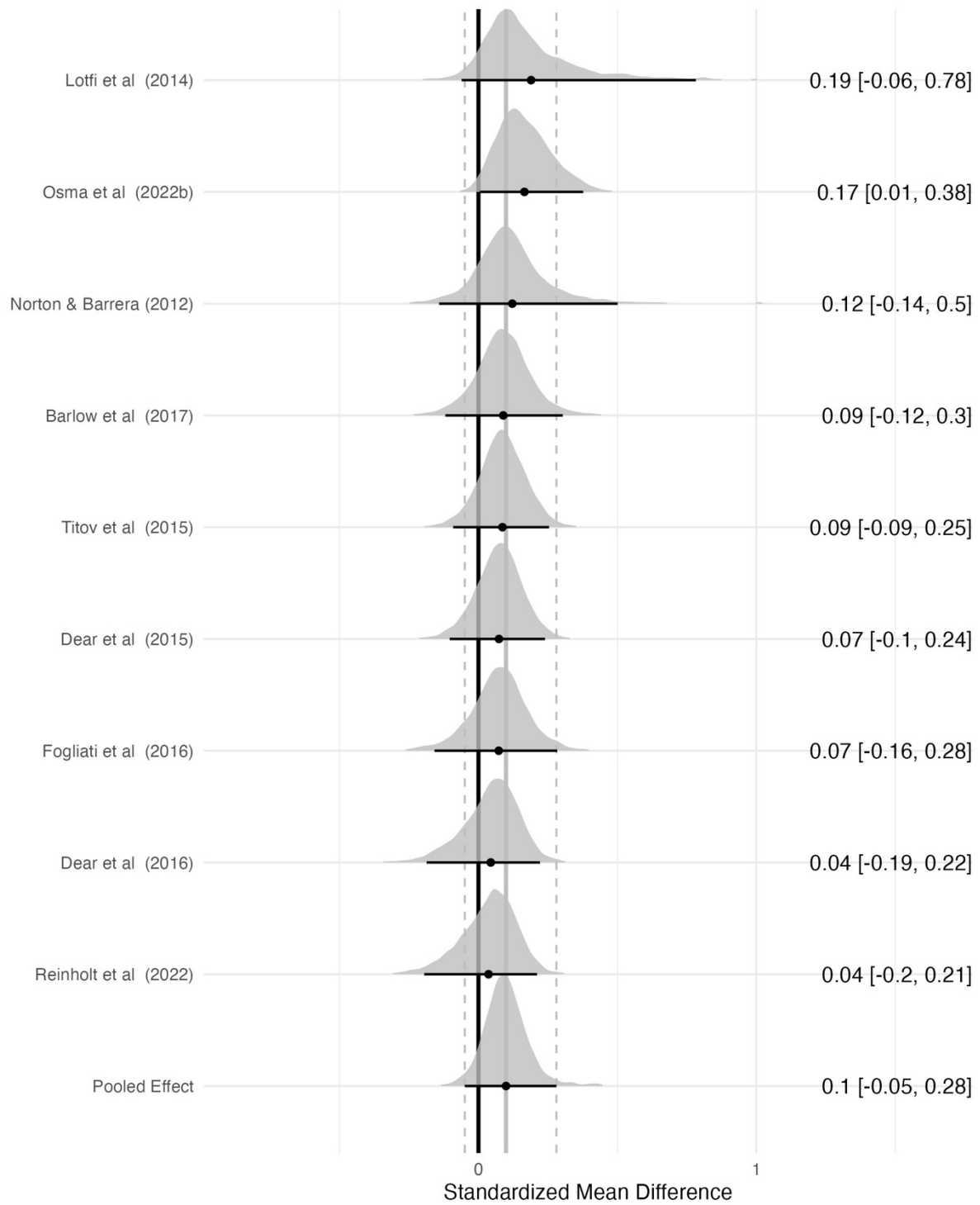


Supplementary Figure 23. Forest plot for anxiety comparing TD-CBT and DS-CBT (Bayesian analyses)

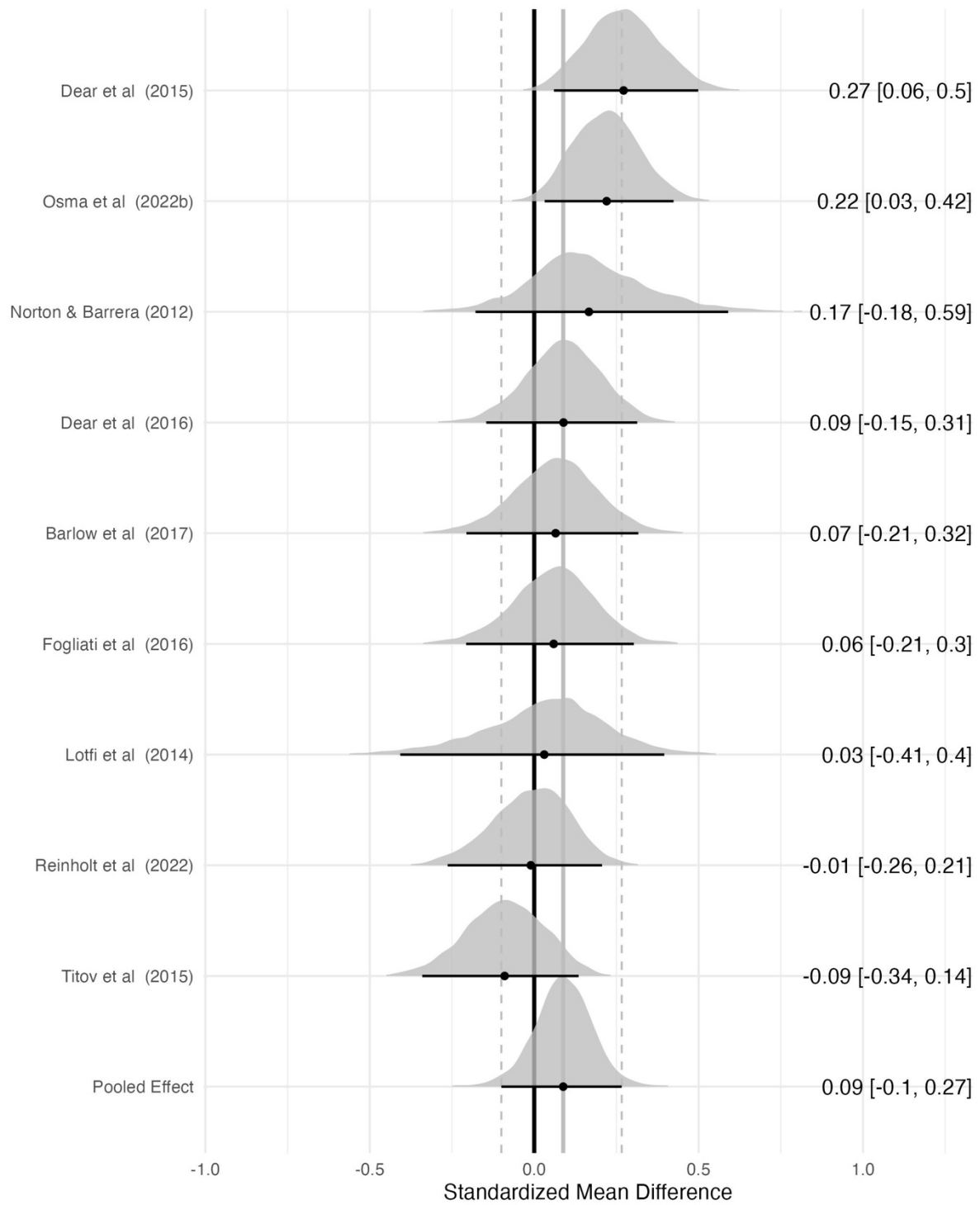
1.2 Sensitivity Analyses with Different Priors of Comparisons TD-CBT and DS-CBT



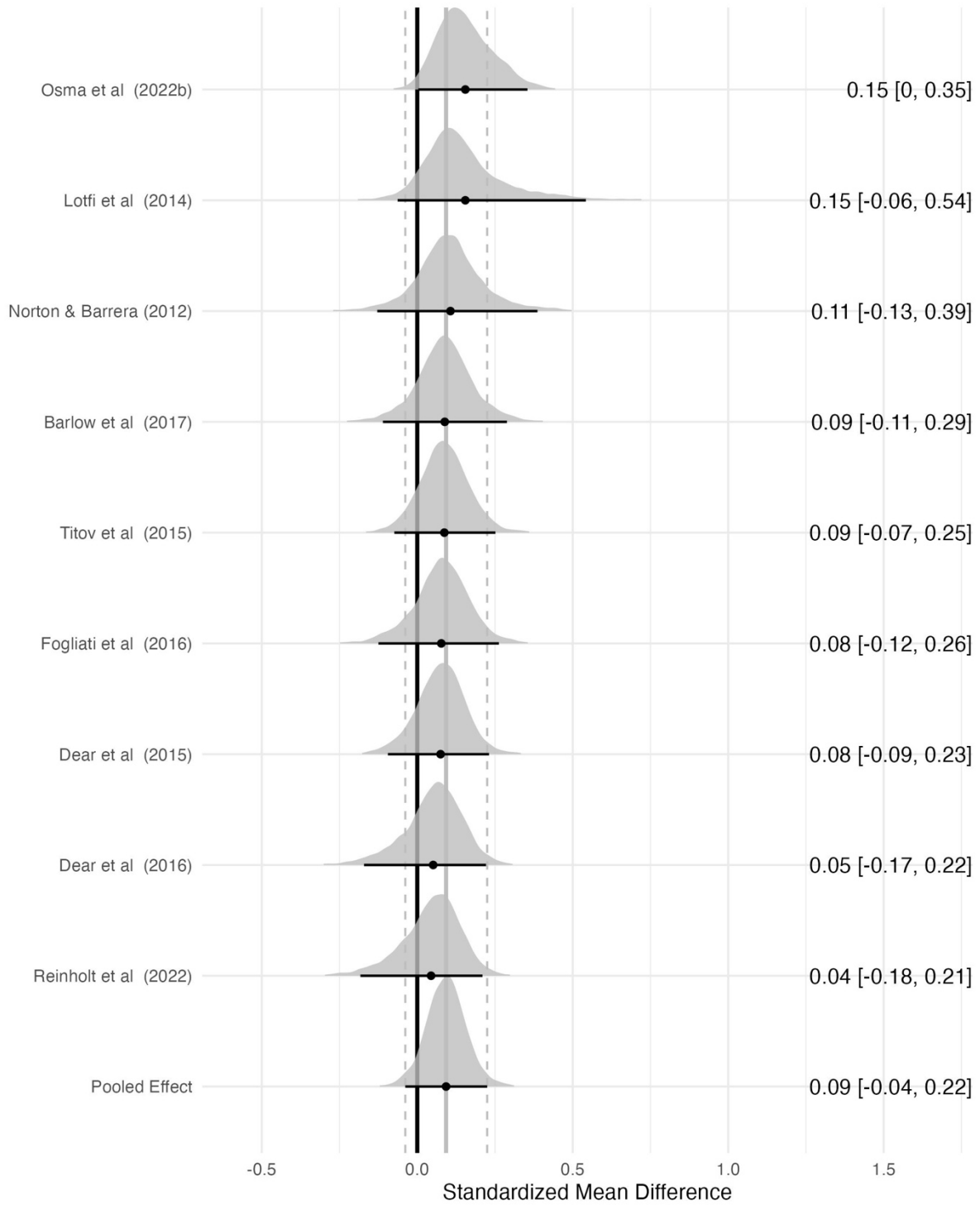
Supplementary Figure 24. Forest plot for depression comparing TD-CBT and DS-CBT applying a non-informative uniform prior with a wide range and a Cauchy prior with a large scale



Supplementary Figure 25. Forest plot for anxiety comparing TD-CBT and DS-CBT applying a non-informative uniform prior with a wide range and a Cauchy prior with a large scale



Supplementary Figure 26. Forest plot for depression comparing TD-CBT and DS-CBT applying a weakly informative prior with a smaller distribution and a less conservative Half-Cauchy prior



Supplementary Figure 27. Forest plot for anxiety comparing TD-CBT and DS-CBT applying a weakly informative prior with a smaller distribution and a less conservative Half-Cauchy prior