Supplementary Online Content

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eFigure 1. Plot of Effect Size by Standard Error

eFigure 2. Plot of Effect Size by Standard Error

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eFigure 5. CBT Combined With Pharmacotherapy Compared With Usual Care Combined With Pharmacotherapy, Quantity Outcomes at Post Treatment

eFigure 6. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Frequency Outcomes at Post Treatment

eFigure 7. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Frequency Outcomes at Follow-up

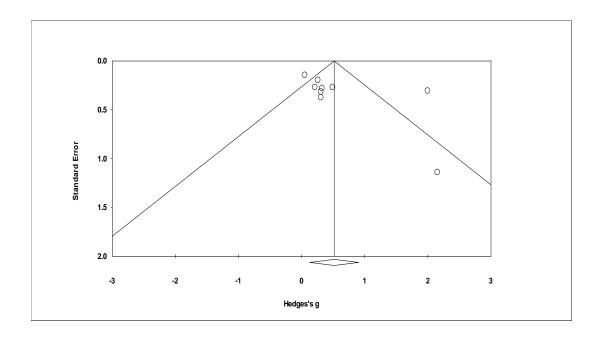
eFigure 8. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Quantity Outcomes at Post Treatment

eFigure 9. CBT Combined With Usual Treatment and Pharmacotherapy Compared With Usual Treatment Combined With Pharmacotherapy, Frequency Outcomes at Post Treatment

eFigure 10. CBT Combined With Usual Treatment and Pharmacotherapy Compared With Usual Treatment Combined With Pharmacotherapy, Frequency Outcomes at Follow-up **eReferences**.

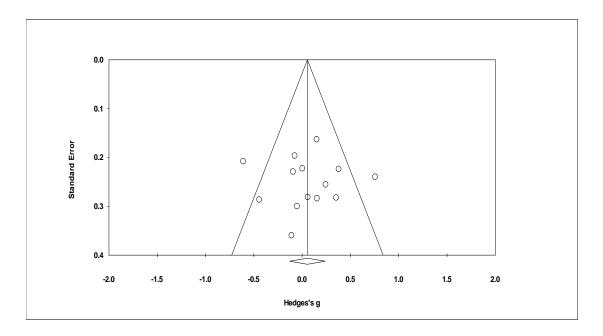
This supplementary material has been provided by the authors to give readers additional information about their work.

eFigure 1. Plot of Effect Size by Standard Error



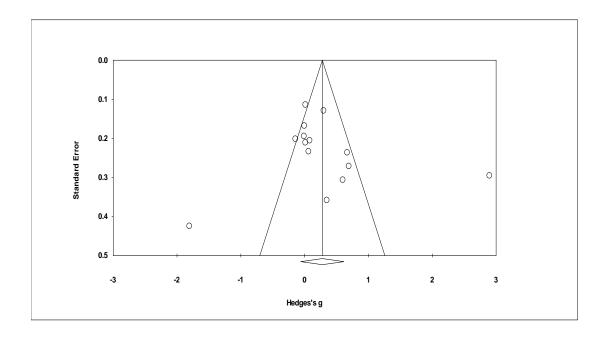
Assessment of bias in combined CBT and pharmacotherapy in contrast to combined usual care and pharmacotherapy. The plot shows some asymmetry, but the regression test was non-significant. Further, when two studies with outlier effects (Heinala et al., 1 2001; Schmitz et al., 2 2001) were removed, this did not change the substantive conclusions for this sub-group (g = 0.22: 95% CI = 0.04, 0.39, p = .014; Q > .05, $I^2 = 0\%$; k = 7).

eFigure 2. Plot of Effect Size by Standard Error



Assessment of bias in combined CBT and pharmacotherapy in contrast to another specific therapy combined with pharmacotherapy. This plot shows symmetry, and the regression test was nonsignificant.

eFigure 3. Plot of Effect Size by Standard Error



Assessment of bias in studies that added CBT to combined usual care and pharmacotherapy in contrast to usual care combined with pharmacotherapy alone. The plot shows some asymmetry, but the regression test was non-significant. When two studies with outlier effects (Dursteler-McFarland et al.,³ 2013; Morgenstern et al.,⁴ 2012) were removed, this resulted in a small and significant effect for CBT in this context (g = 0.17: 95% CI = 0.02, 0.31, p = .025; Q > .05, $I^2 = 40\%$; k = 12).

eFigure 4. CBT Combined With Pharmacotherapy Compared With Usual Care Combined With Pharmacotherapy, Frequency Outcomes at Post Treatment*

Study name	Comparison	St	ach study	7_		Hedges' g and 95% CI				
		Hedges' g	Standard error	Lower limit	Upper limit					
Balldin (2003)	CBT + Med v TAU + Med	0.460	0.269	-0.066	0.987	- 1	1	 = -	-	I
Carroll (1994)	CBT + Med v TAU + Med	0.211	0.270	-0.318	0.740			- =		
Carroll (1998)	CBT + Med v TAU + Med	0.181	0.277	-0.362	0.723			- =		
O'Malley (1992)	CBT + Med v TAU + Med	0.010	0.290	-0.559	0.578			-		
O'Malley (2003)	CBT + Med v TAU + Med	0.064	0.145	-0.219	0.347					
Schmitz (2001)	CBT + Med v TAU + Med	2.153	1.139	-0.080	4.386			-		\longrightarrow
Schmitz (2004)	CBT + Med v TAU + Med	0.493	0.315	-0.124	1.110			+-	-	
Vetzel (2004)	CBT + Med v TAU + Med	0.126	0.196	-0.258	0.509			-		
		0.180	0.085	0.013	0.347			♦		
						-4.00	-2.00	0.00	2.00	4.00
							Favors TAU		Favors CBT	

^{*} No follow-up pooled estimate.

eFigure 5. CBT Combined With Pharmacotherapy Compared With Usual Care Combined With Pharmacotherapy, Quantity Outcomes at Post Treatment*

Study name	<u>Comparison</u>	St	tatistics for e	ach study	_		Hedges' g and 95% CI					
		Hedges'	Standard error	Lower limit	Upper limit							
Balldin (2003)	$CBT + Med \ v \ TAU + Med$	0.524	0.270	-0.004	1.053			⊢= -	.			
O'Malley (1992)	CBT + Med v TAU + Med	0.603	0.441	-0.262	1.468			+-	-			
O'Malley (2003)	CBT + Med v TAU + Med	0.038	0.145	-0.245	0.321							
Schmitz (2004)	CBT + Med v TAU + Med	0.683	0.319	0.057	1.308				-			
Wetzel (2004)	CBT + Med v TAU + Med	0.172	0.196	-0.212	0.556			-				
		0.283	0.129	0.030	0.535			•				
						-4.00	-2.00	0.00	2.00	4.00		
							Favors TAU		Favors CBT			

^{*} No follow-up pooled estimate.

eFigure 6. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Frequency Outcomes at Post Treatment

Study name	Comparison	St	<u> </u>	Hedges' g and 95% CI						
		Hedges' g	Standard error	Lower limit	Upper limit					
Anton (2005)	CBT + Med v specific + Med	0.573	0.226	0.129	1.016	- 1		-■-	.	- 1
Carroll (2004)	CBT + Med v specific + Med	0.245	0.256	-0.256	0.747			-∤=-		
Carroll (1998)	CBT + Med v specific + Med	-0.064	0.281	-0.616	0.487			-		
Davidson (2007)	CBT + Med v specific + Med	0.253	0.164	-0.068	0.574			∤ ■		
De Wildt (2002)	CBT + Med v specific + Med	-0.091	0.156	-0.396	0.214			-		
Ling (2013)	CBT + Med v specific + Med	-0.103	0.197	-0.489	0.283					
Otto (2014)	CBT + Med v specific + Med	-0.125	0.343	-0.797	0.546			─		
ettinati (2008)	CBT + Med v specific + Med	0.004	0.223	-0.432	0.441			-		
lawson (2002)	CBT + Med v specific + Med	-0.441	0.287	-1.003	0.121		-	╼┼		
		0.051	0.092	-0.130	0.232			•		
						-4.00	-2.00	0.00	2.00	4.00
						Fav	vors specific		Favors CBT	

Notes. CBT = cognitive-behavioral therapy; med = medication

eFigure 7. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Frequency Outcomes at Follow-up

Study name	Comparison	St	ach study	7_	Hedges' g and 95% CI					
		Hedges' g	Standard error	Lower limit	Upper limit					
De Wildt (2002)	CBT + Med v specific + Med	-0.094	0.285	-0.652	0.465			-		- 1
Longabuagh (2009)	CBT + Med v specific + Med	-0.437	0.279	-0.984	0.109			╼█╅		
Otto (2014)	CBT + Med v specific + Med	-0.091	0.377	-0.829	0.647			-		
Rawson (2002)	CBT + Med v specific + Med	0.155	0.284	-0.402	0.712					
Saunders (2015)	CBT + Med v specific + Med	0.355	0.283	-0.199	0.909			┼		
		-0.019	0.140	-0.293	0.256			•		
						-4.00	-2.00	0.00	2.00	4.00
						Fav	ors specific		Favors CBT	

Notes. CBT = cognitive-behavioral therapy; med = medication

eFigure 8. CBT Combined With Pharmacotherapy Compared With Another Specific Therapy Combined With Pharmacotherapy, Quantity Outcomes at Post Treatment*

Study name	<u>Comparison</u>	Sta	atistics for e	ach study	7		Hedges' g and 95% CI				
		Hedges'	Standard error	Lower limit	Upper limit						
Anton (2005)	CBT + Med v specific + Med	0.188	0.222	-0.247	0.623	I	I	-			
Davidson (2007)	CBT + Med v specific + Med	0.052	0.163	-0.267	0.372			-			
Epstein (2003)	CBT + Med v specific + Med	-0.608	0.208	-1.016	-0.200		-	■-			
Oslin (2008)	CBT + Med v specific + Med	0.757	0.240	0.287	1.228			-	_		
		0.088	0.259	-0.421	0.596		1	*			
						-4.00	-2.00	0.00	2.00		
							Favors specific		Favors CBT		

Notes. CBT = cognitive-behavioral therapy; med = medication

^{*} No follow-up pooled estimate.

eFigure 9. CBT Combined With Usual Treatment and Pharmacotherapy Compared With Usual Treatment Combined With Pharmacotherapy, Frequency Outcomes at Post Treatment

Study name	Comparison	S	tatistics for e	ach study	<u> </u>		Hedg	es' g and 95°	<u>% CI</u>	
		Hedges'	Standard error	Lower limit	Upper limit					
Anton (2006)	CBT + Med + TAU v Med + TAU	-0.056	0.114	-0.280	0.168				1	
Dursteler-McFarland (2013)	CBT + Med + TAU v Med + TAU	-1.804	0.425	-2.636	-0.971		──			
Ling (2013)	CBT + Med + TAU v Med + TAU	-0.027	0.195	-0.408	0.355			-		
Oslin (2008)	CBT + Med + TAU v Med + TAU	0.669	0.237	0.205	1.133			-■	⊢	
Pan (2015)	CBT + Med + TAU v Med + TAU	0.300	0.129	0.046	0.554					
Rawson (2002)	CBT + Med + TAU v Med + TAU	0.437	0.311	-0.173	1.047			+=	-	
Scherbaum (2005)	CBT + Med + TAU v Med + TAU	-0.117	0.234	-0.575	0.341					
Schmitz (2008)	CBT + Med + TAU v Med + TAU	0.349	0.358	-0.353	1.052				-	
Tucker (2004)	CBT + Med + TAU v Med + TAU	0.161	0.202	-0.236	0.558					
		0.061	0.143	-0.219	0.340			•		
						-4.00	-2.00	0.00	2.00	4.00
							Favors TAU		Favors CBT	

eFigure 10. CBT Combined With Usual Treatment and Pharmacotherapy Compared With Usual Treatment Combined With Pharmacotherapy, Frequency Outcomes at Follow-up*

Study name	Comparison	Statistics for each study					Hedges' g and 95% CI				
		Hedges'	Standard error	Lower limit	Upper limit						
Berner (2014)	CBT + Med + TAU v Med + TAU	0.081	0.206	-0.322	0.485			-		- 1	
Anton (2006)	CBT + Med + TAU v Med + TAU	-0.003	0.114	-0.227	0.221						
Fiellin (2013)	CBT + Med + TAU v Med + TAU	-0.002	0.168	-0.332	0.327			-			
Rawson (2002)	CBT + Med + TAU v Med + TAU	0.762	0.302	0.170	1.354				-		
Saunders (2015)	CBT + Med + TAU v Med + TAU	0.694	0.272	0.162	1.227			- ■	_		
Scherbaum (2005)	CBT + Med + TAU v Med + TAU	0.244	0.234	-0.215	0.703			-∤=-			
Γucker (2004)	CBT + Med + TAU v Med + TAU	-0.133	0.220	-0.563	0.297			-			
		0.166	0.110	-0.049	0.380			•			
						-4.00	-2.00	0.00	2.00	4.00	
							Favors TAU		Favors CBT		

^{*} No quantity post-treatment or follow-up pooled estimate.

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