APPENDIX 14: CLINICAL EVIDENCE FOREST PLOTS

Where available, data were extracted from the review developed for the Cochrane Collaboration by Cleary and colleagues (Cleary, M., Hunt, G. E., Matheson, S. L., *et al.* [2008] Psychosocial interventions for people with both severe mental illness and substance misuse. *Cochrane Database of Systematic Reviews*, Issue 1. DOI: 10.1002/14651858.CD001088.pub2), otherwise from the original study publication (see Appendix 13 for further details about each study).

APPENDIX 14: CLINICAL EVIDENCE FOREST PLOTS

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1 INTEGRATED SERVICE MODELS versus NON-INTEGRATED SERVICE MODELS (critical outcomes)

1.1 versus Standard care - Substance use: 1. Substance use rating (high=poor)

	Tre	atmer	nt	C	ontrol		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.1.1 by 6 months									
MORSE2006	3.15	1.09	46	2.93	1.19	49	100.0%	0.19 [-0.21, 0.59]	-
Subtotal (95% CI)			46			49	100.0%	0.19 [-0.21, 0.59]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.93	P = 0).35)						
4.4.0 h40 m. a4h.a									
1.1.2 by 12 months									_
MORSE2006 Subtotal (95% CI)	3.07	0.96	46 46	2.78	1.18	49 49	100.0% 100.0%	0.27 [-0.14, 0.67] 0.27 [-0.14, 0.67]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.29	(P = 0).20)						
1.1.3 by 18 months									
MORSE2006	2.83	1.3	46	2.69	1.1		100.0%	0.12 [-0.29, 0.52]	
Subtotal (95% CI)			46			49	100.0%	0.12 [-0.29, 0.52]	
Heterogeneity: Not ap	•	· /D · 6	. = = \						
Test for overall effect:	Z = 0.56	(P = C).57)						
1.1.4 by 24 months									
MORSE2006	2.76	1.11	46	2.62	1.15	49	100.0%	0.12 [-0.28, 0.53]	-
Subtotal (95% CI)			46			49	100.0%	0.12 [-0.28, 0.53]	
Heterogeneity: Not ap	•								
Test for overall effect:	Z = 0.60	(P = 0)).55)						
									-1 -0.5 0 0.5 1
									Favours treatment Favours control

1.2 versus Standard care - Substance use: 2. Days used substances

	Tre	atmer	nt	С	ontrol			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.2.1 by 6 months									<u>L</u>
MORSE2006	6.88	6.61	46	6.34	7.52	49	100.0%	0.08 [-0.33, 0.48]	
Subtotal (95% CI)			46			49	100.0%	0.08 [-0.33, 0.48]	
Heterogeneity: Not ap									
Test for overall effect:	Z = 0.37	(P = 0).71)						
1.2.2 by 12 months									
MORSE2006	8.28	7.4	46	7 46	7.98	49	100.0%	0.11 [-0.30, 0.51]	
Subtotal (95% CI)			46			49	100.0%	0.11 [-0.30, 0.51]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.51	(P = 0	0.61)						
1.2.3 by 18 months									
MORSE2006	7.85	8.51	46	7.1	7.92	49	100.0%	0.09 [-0.31, 0.49]	
Subtotal (95% CI)			46			49	100.0%	0.09 [-0.31, 0.49]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.44	(P = 0	0.66)						
1.2.4 by 24 months									
MORSE2006	7.43	8.06	46	6.42	7.84	49	100.0%	0.13 [-0.28, 0.53]	
Subtotal (95% CI)			46			49	100.0%	0.13 [-0.28, 0.53]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.61	(P = 0	0.54)						
									-1 -0.5 0 0.5 1
									Favours treatment Favours control

1.3 versus Standard care - Service use: 1. Days in stable community residences (not in hospital)

	t	C	Control			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.3.1 by 6 months									
MORSE2006	8.19	9.68	46	5.02	8.62	49	100.0%	3.17 [-0.52, 6.86]	
Subtotal (95% CI)			46			49	100.0%	3.17 [-0.52, 6.86]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.68	(P = 0.	09)						
1.3.2 by 12 months									
MORSE2006	14.18	12.33	46	11.34	12.04	49	100.0%	2.84 [-2.07, 7.75]	
Subtotal (95% CI)			46			49	100.0%	2.84 [-2.07, 7.75]	
Heterogeneity: Not ap	plicable								
Test for overall effect:		(P = 0.	26)						
1.3.3 by 18 months									
MORSE2006	17.01	12.51	46	10.55	12.87	49	100.0%	6.46 [1.36, 11.56]	- - - - - - - - - -
Subtotal (95% CI)			46			49	100.0%	6.46 [1.36, 11.56]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 2.48	(P = 0.	01)						
1.3.4 by 24 months									
MORSE2006	18.29	12.12	46	12.59	13.27	49	100.0%	5.70 [0.59, 10.81]	
Subtotal (95% CI)			46			49	100.0%	5.70 [0.59, 10.81]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	•	(P = 0.	03)						
		•	,						
									-10 -5 0 5 10
									-10 -5 0 5 10 Favours control Favours treatmen
									ravours control ravours licaline

1.4 versus Non-integrated ACT - Substance use: 1. Substance use rating (high=poor)

Treatment Control								Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.4.1 by 6 months									
MORSE2006	3.15	1.09	46	2.98	1.31	54	100.0%	0.14 [-0.25, 0.53]	
Subtotal (95% CI)			46			54	100.0%	0.14 [-0.25, 0.53]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.69	(P = 0).49)						
1.4.2 by 12 months									
MORSE2006	3.07	0.96	46	2.86	1.32	54	100.0%	0.18 [-0.22, 0.57]	-
Subtotal (95% CI)			46			54	100.0%	0.18 [-0.22, 0.57]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.89	(P = 0	0.38)						
1.4.3 by 18 months									
MORSE2006	2.83	1.3	46	3.02	1.26	54	100.0%	-0.15 [-0.54, 0.25]	
Subtotal (95% CI)			46			54	100.0%	-0.15 [-0.54, 0.25]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.73	8 (P = 0	0.46)						
1.4.4 by 24 months									
MORSE2006	2.76	1.11	46	2.7	1.28	54	100.0%	0.05 [-0.34, 0.44]	
Subtotal (95% CI)			46			54	100.0%	0.05 [-0.34, 0.44]	
Heterogeneity: Not app	plicable								
Test for overall effect:		(P = 0).81)						
		`	,						
									-1 -0.5 0 0.5 1
									-1 -0.5 0 0.5 1 Favours treatment Favours control
									ravours deadine it Favours condu

1.5 versus Non-integrated ACT - Substance use: 2. Days used substances

	Tre	atmer	nt	C	ontrol		:	Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
1.5.1 by 6 months											
MORSE2006	6.88	6.61	46	6.25	7.84	54	100.0%	0.09 [-0.31, 0.48]			
Subtotal (95% CI)			46			54	100.0%	0.09 [-0.31, 0.48]			
Heterogeneity: Not app	plicable										
Test for overall effect:	Z = 0.43	B (P = 0	0.67)								
1.5.2 by 12 months											
MORSE2006	8.28	7.4	46	6.06	8.7	54	100.0%	0.27 [-0.12, 0.67]	+		
Subtotal (95% CI)			46			54	100.0%	0.27 [-0.12, 0.67]			
Heterogeneity: Not app											
Test for overall effect:	Z = 1.34	l (P = (0.18)								
1.5.3 by 18 months									_		
MORSE2006	7.85	8.51	46	7.1	7.92	54	100.0%	0.09 [-0.30, 0.48]			
Subtotal (95% CI)			46			54	100.0%	0.09 [-0.30, 0.48]			
Heterogeneity: Not app	plicable										
Test for overall effect:	Z = 0.45	5 (P = 0	0.65)								
1.5.4 by 24 months											
MORSE2006	7.43	8.06	46	6.77	8.86	54	100.0%	0.08 [-0.32, 0.47]			
Subtotal (95% CI)			46			54	100.0%	0.08 [-0.32, 0.47]			
Heterogeneity: Not app	plicable										
Test for overall effect:) (P = 0	0.70)								
		•	,								
											
									-1 -0.5 0 0.5 Favours treatment Favours con		

1.6 versus Non-integrated ACT - Service use: 1. Days in stable community residences (not in hospital)

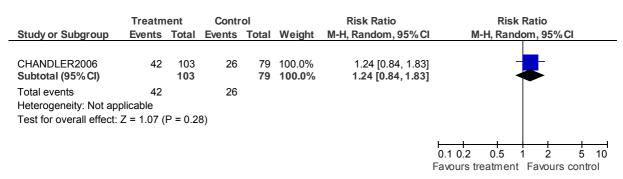
	Tre	atmen	t	c	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.6.1 by 6 months									
MORSE2006	8.19	9.68	46	5.77	7.42	54	100.0%	2.42 [-1.01, 5.85]	+
Subtotal (95% CI)			46			54	100.0%	2.42 [-1.01, 5.85]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 1.38	(P = 0.	17)						
1.6.2 by 12 months									
MORSE2006	14.18	12.33	46	13.87	11.66	54	100.0%	0.31 [-4.42, 5.04]	-
Subtotal (95% CI)			46			54	100.0%	0.31 [-4.42, 5.04]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.13	(P = 0.1)	90)						
1.6.3 by 18 months									
MORSE2006	17.01	12.51	46	18.19	11.63	54	100.0%	-1.18 [-5.94, 3.58]	
Subtotal (95% CI)			46			54	100.0%	-1.18 [-5.94, 3.58]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.49	(P = 0.	63)						
1.6.4 by 24 months									
MORSE2006	18.29	12.12	46	17.78	12.68	54	100.0%	0.51 [-4.36, 5.38]	 _
Subtotal (95% CI)			46			54	100.0%	0.51 [-4.36, 5.38]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.21	(P = 0.	84)						
									-10 -5 0 5 10
									Favours control Favours treatment
									. avoaro control i avoaro acaunent

2 INTEGRATED SERVICE MODELS versus STANDARD CARE (non-critical outcomes)

2.1 Lost to treatment - by 36 months

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% Cl	I M-H, Random, 95% CI
CHANDLER2006	42	103	26	79	100.0%	1.24 [0.84, 1.83]	
Total (95% CI)		103		79	100.0%	1.24 [0.84, 1.83]	
Total events	42		26				
Heterogeneity: Not ap	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 1.07 (P = 0.2	8)				Favours treatment Favours control

2.2 Lost to evaluation - by 36 months



2.3 Mental state: 1. Relapse (hospitalisation days and crisis care) (skewed data)

	Tre	atmer	nt	C	ontrol			Std. Mean Difference		Std. M	ean Diffe	erence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		IV, Ra	ındom, 9	95% CI	
2.3.1 Relapse - 36 m	onths												
CHANDLER2006	1.25	3.27	103	5.03	13.88	79	100.0%	-0.40 [-0.69, -0.10]					
Subtotal (95% CI)			103			79	100.0%	-0.40 [-0.69, -0.10]			•		
Heterogeneity: Not ap	plicable												
Test for overall effect:	Z = 2.63	(P = 0	(800.0										
										-2			+
									-4 Favou	-∠ rs treatm	ent Fav	vours co	4 ontrol

2.4 Mental state: 2. Total symptoms (BPRS, high=poor)

Treatment Control							;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.4.1 by 6 months									
MORSE2006 Subtotal (95% CI)	1.94	0.42	46 46	1.98	0.58	49 49	100.0% 100.0%	-0.08 [-0.48, 0.32] -0.08 [-0.48, 0.32]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.38	(P = 0).70)						
2.4.2 by 12 months									
MORSE2006 Subtotal (95% CI)	1.82	0.52	46 46	1.92	0.54	49 49	100.0% 100.0%	-0.19 [-0.59, 0.22] -0.19 [-0.59, 0.22]	
Heterogeneity: Not appropriate the Test for overall effect:	•	(P = 0).36)						
2.4.3 by 18 months									
MORSE2006 Subtotal (95% CI)	1.81	0.54	46 46	1.98	0.56	49 49	100.0% 100.0 %	-0.31 [-0.71, 0.10] -0.31 [-0.71, 0.10]	
Heterogeneity: Not ap	•	/D = (141						
Test for overall effect:	Z = 1.40	(P = C). 14)						
2.4.4 by 24 months									
MORSE2006 Subtotal (95% CI)	1.66	0.46	46 46	1.86	0.6		100.0% 100.0%	-0.37 [-0.78, 0.04] -0.37 [-0.78, 0.04]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.78	(P = 0).07)						
									-1 -0.5 0 0.5 1
									Favours treatment Favours control

2.6 Functioning: 2. Forensic measures (skewed data)

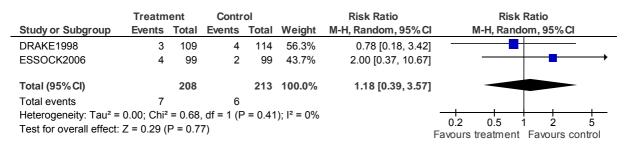
	Tre	atmen	t	C	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.6.1 arrests - 36 mo	nths								
CHANDLER2006	2.21	4.06	103	2.61	3.31	79	100.0%	-0.40 [-1.47, 0.67]	
Subtotal (95% CI)			103			79	100.0%	-0.40 [-1.47, 0.67]	•
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.73	(P = 0.	46)						
2.6.2 convictions - 36	months								
CHANDLER2006	0.59	0.9	103	0.73	0.98	79	100.0%	-0.14 [-0.42, 0.14]	
Subtotal (95% CI)			103			79	100.0%	-0.14 [-0.42, 0.14]	au
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.99	(P = 0.	32)						
2.6.3 felony - 36 mon	ths								
CHANDLER2006	0.31	0.46	103	0.28	0.5	79	100.0%	0.03 [-0.11, 0.17]	-
Subtotal (95% CI)			103			79	100.0%	0.03 [-0.11, 0.17]	T
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.42	(P = 0.	68)						
2.6.5 jail days- 36 mc	onths								
CHANDLER2006	60.71	73.03	103	59.39	66.86	79	100.0%	1.32 [-19.08, 21.72]	
Subtotal (95% CI)			103			79	100.0%	1.32 [-19.08, 21.72]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.13	(P = 0.	90)						
								_	-20 -10 0 10 2
								Favo	urs experimental Favours c

2.7 Functioning: 3. Outpatient medication service (mean number of hours) - 36 months

	Treatment			Co	ontro	I		Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
CHANDLER2006	6.52	0.82	86	3.02	0.6	49	100.0%	3.50 [3.26, 3.74]			
Total (95% CI)			86			49	100.0%	3.50 [3.26, 3.74]	+		
Heterogeneity: Not applicable Test for overall effect: Z = 28.42 (P < 0.00001) Favours control Favours treatn											

3 INTEGRATED ACT versus STANDARD CASE MANAGEMENT (critical outcomes)

3.1 Death - by 36 months



3.2 Substance use: 1. Not in remission - by 36 months

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
3.2.1 alcohol							
DRAKE1998	43	75	34	68	100.0%	1.15 [0.84, 1.56]	-
Subtotal (95% CI)		75		68	100.0%	1.15 [0.84, 1.56]	▼
Total events	43		34				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.87 (P = 0.3	8)				
3.2.2 drugs							
DRAKE1998	26	45	26	40	100.0%	0.89 [0.63, 1.25]	-
Subtotal (95% CI)		45		40	100.0%	0.89 [0.63, 1.25]	•
Total events	26		26				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.68 (P = 0.4	9)				
							0.1 0.2 0.5 1 2 5 10
							Favours treatment Favours control
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3.3 Substance use: 2. Substance misuse (SATS, low=poor)

	Tre	atmer	nt	C	ontrol		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.3.1 by 6 months									
DRAKE1998	3.69	1.32	105	3.62	1.19	98	53.6%	0.06 [-0.22, 0.33]	
ESSOCK2006	3.3	1.6	93	3.3	1.5	83	46.4%	0.00 [-0.30, 0.30]	
Subtotal (95% CI)			198			181	100.0%	0.03 [-0.17, 0.23]	•
Heterogeneity: Tau ² =	0.00; CI	ni² = 0.	07, df =	= 1 (P =	0.79);	$I^2 = 0\%$, D		
Test for overall effect:	Z = 0.29	P = 0).77)						
2.2.2.4.2									
3.3.2 by 12 months									
DRAKE1998	3.99	1.6	105		1.59	98	51.9%	-0.07 [-0.34, 0.21]	
ESSOCK2006	3.8	1.7	87 192	3.4	1.5	84	48.1%	0.25 [-0.05, 0.55]	
Subtotal (95% CI)	0.00.00	-:2 - 0		- 1 (D -	0.40\.		100.0%	0.08 [-0.23, 0.39]	
Heterogeneity: Tau ² =	-			= 1 (P =	0.13);	12 = 5/	%		
Test for overall effect:	∠ = 0.53) (P = ((00.0						
3.3.3 by 18 months									
DRAKE1998	4 19	1.77	105	4 32	1.75	98	54.1%	-0.07 [-0.35, 0.20]	
ESSOCK2006	4		88	3.9	1.8	84	45.9%	0.05 [-0.25, 0.35]	
Subtotal (95% CI)	•		193	0.0			100.0%	-0.02 [-0.22, 0.19]	•
Heterogeneity: Tau ² =	0.00; CI	ni² = 0.	38, df =	1 (P =	0.54);	I ² = 0%	, D		
Test for overall effect:	,		,	`	//				
			,						
3.3.4 by 24 months									
DRAKE1998	4.5	1.76	105	4.51	1.73	98	53.8%	-0.01 [-0.28, 0.27]	
ESSOCK2006	4.2	2	79	3.7	1.9	83	46.2%	0.26 [-0.05, 0.56]	
Subtotal (95% CI)			184			181	100.0%	0.11 [-0.14, 0.37]	
Heterogeneity: Tau ² =	-			= 1 (P =	0.22);	$I^2 = 34$	%		
Test for overall effect:	Z = 0.88	B(P=0)	0.38)						
2.2.5 by 20 months									
3.3.5 by 30 months	4.70	4.00	405	4.40	4.00	00	50.00 /	0.45.10.40.0.401	
DRAKE1998		1.92	105		1.88	98	56.6%	0.15 [-0.13, 0.42]	
ESSOCK2006 Subtotal (95% CI)	4.1	2	80 185	4	1.9	75 173	43.4% 100.0%	0.05 [-0.26, 0.37] 0.11 [-0.10, 0.31]	
` '	0.00.01	ai2 – 0		- 1 (D -	0 GE\.			0.11 [-0.10, 0.51]	
Heterogeneity: Tau ² = Test for overall effect:	,		,	- I (P =	0.05),	1- = 0%	0		
rest for overall effect.	2 - 0.98) (P – (J.32)						
3.3.6 by 36 months									
DRAKE1998	5.03	1.92	105	4 92	1.89	98	56.4%	0.06 [-0.22, 0.33]	_ _
ESSOCK2006	4.4	1.8	78	4.3	2.1	79	43.6%	0.05 [-0.26, 0.36]	
Subtotal (95% CI)			183	1.5			100.0%	0.05 [-0.15, 0.26]	•
Heterogeneity: Tau ² =	0.00: CI	ni² = 0.	00, df =	= 1 (P =	0.98):	I ² = 0%	, D		
Test for overall effect:			,		/,	27	-		
		•	,						
									-1 -0.5 0 0.5 1
									-1 -0.5 0 0.5 1 Favours control Favours treatment
									ravours control ravours treatment

3.4 Service use: 1. Days in stable community residences (not in hospital)

	Tre	eatmen	t	(Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.4.1 by 12 months									
DRAKE1998	151.7	43.3	105	151	54.2	98	65.0%	0.70 [-12.86, 14.26]	-
ESSOCK2006	253.2	121.4	92	283.1	118.4	83	35.0%	-29.90 [-65.46, 5.66]	
Subtotal (95% CI)			197			181	100.0%	-10.00 [-38.61, 18.60]	
Heterogeneity: Tau ² =	279.72;	$Chi^2 = 2$	2.48, df	= 1 (P =	= 0.11);	$I^2 = 60^{\circ}$	%		
Test for overall effect:	Z = 0.69	(P = 0.	49)						
3.4.2 by 24 months									
DRAKE1998	158.5	48.1	105	151.1	51.4	98	89.9%	7.40 [-6.32, 21.12]	-
ESSOCK2006	264.3	130.4	89	245.6	143.9	85	10.1%	18.70 [-22.16, 59.56]	
Subtotal (95% CI)			194			183	100.0%	8.54 [-4.46, 21.55]	*
Heterogeneity: Tau ² =	0.00; Ch	$1i^2 = 0.20$	6, df =	1 (P = 0)	.61); l²	= 0%			
Test for overall effect:	Z = 1.29	(P = 0.	20)						
3.4.3 by 36 months									
DRAKE1998	171.4	52.6	105	167.7	58.1	98	88.5%	3.70 [-11.58, 18.98]	- <mark></mark> -
ESSOCK2006	268.6	128	81	252.1	145.7	80	11.5%	16.50 [-25.88, 58.88]	- •
Subtotal (95% CI)			186			178	100.0%	5.17 [-9.20, 19.55]	•
Heterogeneity: Tau ² =	0.00; Ch	$10^2 = 0.3$	1, df =	1 (P = 0)	.58); l²	= 0%			
Test for overall effect:	Z = 0.71	(P = 0.	48)						
									-100 -50 0 50 100
									Favours control Favours treatment

3.5 Functioning: 1. Average general score (GAS, low=poor)

		Tre	atmer	nt	Co	ntro	l	;	Std. Mean Difference	Std. Mean Difference
_	Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
	3.5.1 by 6 months									
	ESSOCK2006 Subtotal (95% CI)	41.9	8.9	87 87	40.8	8.5		100.0% 100.0%	0.13 [-0.18, 0.43] 0.13 [-0.18, 0.43]	-
	Heterogeneity: Not app	olicable								
	Test for overall effect: 2	Z = 0.80	(P = 0	0.43)						
	3.5.2 by 12 months									
	ESSOCK2006 Subtotal (95% CI)	40.4	9.9	89 89	39.7	8.6		100.0% 100.0 %	0.07 [-0.23, 0.38] 0.07 [-0.23, 0.38]	*
	Heterogeneity: Not app Test for overall effect: 2		(P = 0	0.62)						
	3.5.3 by 18 months									<u>L</u>
	ESSOCK2006 Subtotal (95% CI)	40.6	10.1	90 90	39.6	7.2		100.0% 100.0%	0.11 [-0.18, 0.41] 0.11 [-0.18, 0.41]	
	Heterogeneity: Not app	olicable								
	Test for overall effect: 2	Z = 0.75	(P = 0	0.45)						
	3.5.4 by 24 months									
	ESSOCK2006 Subtotal (95% CI)	41.7	9.5	81 81	40	9.4		100.0% 100.0%	0.18 [-0.13, 0.48] 0.18 [-0.13, 0.48]	
	Heterogeneity: Not app	olicable								
	Test for overall effect: 2	Z = 1.15	(P = 0	0.25)						
	3.5.5 by 30 months									
	ESSOCK2006 Subtotal (95% CI)	39.8	9.4	84 84	40.4	9.9		100.0% 100.0%	-0.06 [-0.37, 0.24] -0.06 [-0.37, 0.24]	.
	Heterogeneity: Not app	olicable								
	Test for overall effect: 2		(P = 0	0.69)						
	3.5.6 by 36 months									<u>L</u>
	ESSOCK2006 Subtotal (95% CI)	43	9.2	85 85	42.6	9.9		100.0% 100.0%	0.04 [-0.26, 0.34] 0.04 [-0.26, 0.34]	
	Heterogeneity: Not app	olicable								T
	Test for overall effect: 2		(P = 0	0.79)						
										-1 -0.5 0 0.5 1 Favours control Favours treatment

3.8 Satisfaction: Average general score (QOLI, low=poor)

	Tre	atmer	nt	C	ontrol		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.8.1 by 6 months									
DRAKE1998	4.29	1.6	105	4.31	1.41	98	56.4%	-0.01 [-0.29, 0.26]	
ESSOCK2006	4.6	1.5	84	4.8	1.3	74	43.6%	-0.14 [-0.45, 0.17]	
Subtotal (95% CI)			189			172	100.0%	-0.07 [-0.28, 0.14]	
Heterogeneity: Tau ² =	0.00; CI	ni² = 0.	36, df =	= 1 (P =	0.55);	$I^2 = 0\%$	0		
Test for overall effect:	Z = 0.65	5 (P = 0	0.51)						
3.8.2 by 12 months									
DRAKE1998	4.3	1.45	105	4.34	1.37	98	54.6%	-0.03 [-0.30, 0.25]	
ESSOCK2006	4.7	1.5	88	4.6	1.6	81	45.4%	0.06 [-0.24, 0.37]	
Subtotal (95% CI)			193			179	100.0%	0.01 [-0.19, 0.22]	
Heterogeneity: Tau ² =	0.00; CI	ni² = 0.	20, df =	= 1 (P =	0.66);	$I^2 = 0\%$, 0		
Test for overall effect:	Z = 0.13	3 (P = 0	0.89)						
3.8.3 by 18 months									
DRAKE1998	4.32	1.43	105	4.39	1.33	98	53.0%	-0.05 [-0.33, 0.22]	
ESSOCK2006	4.8	1.6	89	4.5	1.6	85	47.0%	0.19 [-0.11, 0.48]	- -
Subtotal (95% CI)			194			183	100.0%	0.06 [-0.17, 0.29]	
Heterogeneity: Tau ² =	0.01; CI	ոi² = 1.	31, df =	= 1 (P =	0.25);	$I^2 = 24$	%		
Test for overall effect:	Z = 0.52	2 (P = (0.61)						
3.8.4 by 24 months									
DRAKE1998	4.34	1.49	105	4.46	1.35	98	54.6%	-0.08 [-0.36, 0.19]	
ESSOCK2006	4.7	1.6	81	4.5	1.4	86	45.4%	0.13 [-0.17, 0.44]	-
Subtotal (95% CI)			186			184	100.0%	0.01 [-0.20, 0.23]	
Heterogeneity: Tau ² =	0.00; CI	ոi² = 1.	07, df =	= 1 (P =	0.30);	$I^2 = 7\%$, 0		
Test for overall effect:	Z = 0.13	3 (P = 0	0.89)						
3.8.5 by 30 months									
DRAKE1998	4.64	1.23	105	4.6	1.44	98	55.4%	0.03 [-0.25, 0.31]	
ESSOCK2006	4.8	1.6	83	4.8	1.5	80	44.6%	0.00 [-0.31, 0.31]	
Subtotal (95% CI)			188			178	100.0%	0.02 [-0.19, 0.22]	
Heterogeneity: Tau ² =				= 1 (P =	0.89);	$I^2 = 0\%$	ó		
Test for overall effect:	Z = 0.16	6 (P = (0.87)						
3.8.6 by 36 months									
DRAKE1998	4.56	1.23	105	4.46	1.29	98	54.4%	0.08 [-0.20, 0.35]	- •
ESSOCK2006	4.8	1.6	85	4.7	1.6	85	45.6%	0.06 [-0.24, 0.36]	-
Subtotal (95% CI)			190			183	100.0%	0.07 [-0.13, 0.27]	
Heterogeneity: Tau ² =				= 1 (P =	0.94);	$I^2 = 0\%$	Ó		
Test for overall effect:	∠ = 0.69	9 (P = (J.49)						
									+ + + + + + + + + + + + + + + + + + + +
									-0.5 -0.25 0 0.25 0.5
									Favours control Favours treatment

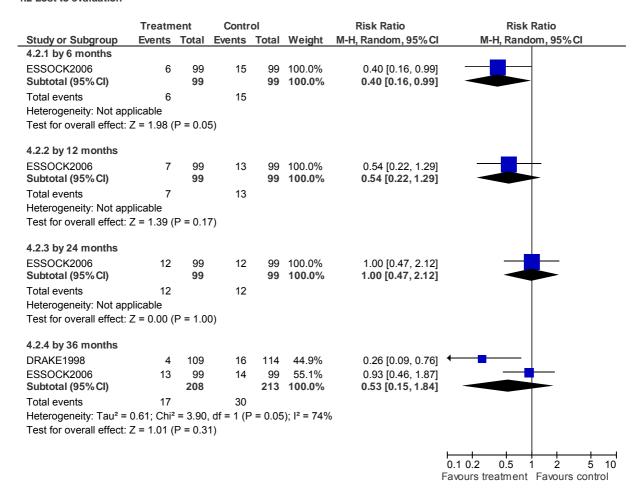
4 INTEGRATED ACT versus STANDARD CASE MANAGEMENT (non-critical outcomes)

4.1 Lost to treatment - by 36 months

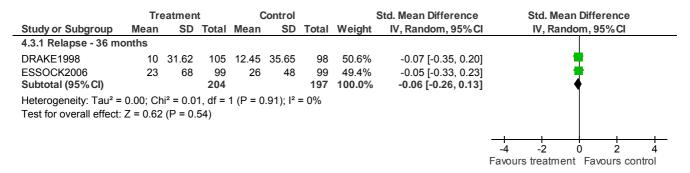
	Treatme	ent	Contr	ol		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% C	M-H, Rand	om, 95% CI
DRAKE1998	22	109	28	114	74.9%	0.82 [0.50, 1.35]		
ESSOCK2006	11	99	8	99	25.1%	1.38 [0.58, 3.27]	-	
Total (95% CI)		208		213	100.0%	0.94 [0.60, 1.45]		
Total events	33		36					
Heterogeneity: Tau ² =	0.00; Chi ² =	= 1.03,	df = 1 (F	9 = 0.31); $I^2 = 3\%$		0.5 0.7	1 15 2
Test for overall effect:	Z = 0.30 (P	0.76	3)				0.5 0.7 Favours treatment	1 1.5 2 Favours control

Appendix 14

4.2 Lost to evaluation



4.3 Mental state: 1. Relapse (hospitalisation days and crisis care) (skewed data)



4.4 Mental state: 2. Average score (BPRS, skewed data)

	Tre	eatmen	t	C	Control			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
.4.1 6 months									
RAKE1998	42.2	12.18	105	42.85	12.09	98	55.2%	-0.65 [-3.99, 2.69]	 -
SSOCK2006	46.1	13.7	78	43.4	11.2	75	44.8%	2.70 [-1.26, 6.66]	
Subtotal (95% CI)			183			173	100.0%	0.85 [-2.42, 4.11]	
Heterogeneity: Tau ² =	2.12; Ch	ni² = 1.6	1, df =	1 (P = 0)	.20); l ²	= 38%			
est for overall effect:	Z = 0.51	(P = 0.	61)						
.4.2 12 months									
RAKE1998	41.57	10.8	105	43.19	11.96	98	53.5%	-1.62 [-4.76, 1.52]	
SSOCK2006	46.2	13.8	86	43.6	11.5	82	46.5%	2.60 [-1.23, 6.43]	
Subtotal (95% CI)			191			180	100.0%	0.34 [-3.78, 4.47]	
leterogeneity: Tau ² =	5.71; Ch	ni² = 2.78	8, df =	1 (P = 0)	.10); I²	= 64%			
est for overall effect:	Z = 0.16	(P = 0.	87)						
.4.3 18 months									
RAKE1998	43.89	11.58	105	44.37	13.39	98	53.0%	-0.48 [-3.93, 2.97]	-
SSOCK2006	45.6	12.5	89	45	12.1	84	47.0%	0.60 [-3.07, 4.27]	
Subtotal (95% CI)			194			182	100.0%	0.03 [-2.49, 2.54]	*
Heterogeneity: Tau ² =	0.00; Ch	ni² = 0.18	8, df =	1 (P = 0)	.67); l ²	= 0%			
est for overall effect:	Z = 0.02	(P = 0.	98)						
.4.4 24 months									
PRAKE1998	42.45	11.03	105	43.32	12.36	98	58.6%	-0.87 [-4.10, 2.36]	
SSOCK2006	43.7	12.4	79	45.9	12.8	86	41.4%	-2.20 [-6.05, 1.65]	
Subtotal (95% CI)			184			184	100.0%	-1.42 [-3.89, 1.05]	
leterogeneity: Tau² =	,		,	1 (P = 0	.60); l²	= 0%			
est for overall effect:	Z = 1.13	(P = 0.	26)						
.4.5 30 months									
PRAKE1998	39.63	9.6	105	42.27	12.13	98	56.7%	-2.64 [-5.66, 0.38]	
SSOCK2006	46.6	16.1	83	44.6	12.8	77	43.3%	2.00 [-2.49, 6.49]	
Subtotal (95% CI)			188			175	100.0%	-0.63 [-5.14, 3.88]	
leterogeneity: Tau ² =	,		,	1 (P = 0)	.09); I²	= 65%			
est for overall effect:	Z = 0.27	(P = 0.	78)						
.4.6 36 months									
PRAKE1998	40.89	10.82	105	41.11	11.69	98	57.6%	-0.22 [-3.32, 2.88]	
SSOCK2006	43	11.2	85	43.2	12.5	81	42.4%	-0.20 [-3.82, 3.42]	
Subtotal (95% CI)			190			179	100.0%	-0.21 [-2.57, 2.14]	•
distotal (33 /001)	0.00.04	$ni^2 = 0.00$	0, df =	1 (P = 0)	.99); I²	= 0%			
leterogeneity: Tau² =	,		^^\						
• •	,		86)	·					
leterogeneity: Tau² =	,		86)						

4.5 Service use: 2. Number hospitalised - during the 36 month study period

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	I M-H, Random, 95% CI
ESSOCK2006	42	99	48	99	100.0%	0.88 [0.64, 1.19]	
Total (95% CI)		99		99	100.0%	0.88 [0.64, 1.19]	
Total events	42		48				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.3	9)				0.5 0.7 1 1.5 2 Favours treatment Favours control

4.6 Functioning: 2. Forensic measures (skewed data)

	Tre	atme	nt	C	ontro			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
4.6.1 hospital or jail	- 36 mon	ths							
ESSOCK2006	118	221	99	112	210	99	100.0%	6.00 [-54.05, 66.05]	←
Subtotal (95% CI)			99			99	100.0%	6.00 [-54.05, 66.05]	
Heterogeneity: Not a	pplicable								
Test for overall effect	: Z = 0.20	(P=	0.84)						
									-
								_	-20 -10 0 10 20
								Г	avours experimental Favours control

5 STAFFED ACCOMMODATION versus STANDARD CARE (critical outcomes)

5.1 Substance use: 1. Days used alcohol (low=poor)

			Treatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup S	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.1.1 3 months							
BURNAM1995	-0.317	0.198	57	47	100.0%	-0.32 [-0.71, 0.07]	— —
Subtotal (95% CI)			57	47	100.0%	-0.32 [-0.71, 0.07]	
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 1.60 (P = 0.11)						
5.1.2 6 months							
BURNAM1995	0	0.203	49	48	100.0%	0.00 [-0.40, 0.40]	
Subtotal (95% CI)			49	48	100.0%		
Heterogeneity: Not applic	cable						
Test for overall effect: Z	= 0.00 (P = 1.00)						
5.1.3 9 months							
BURNAM1995	-0.051	0.222	45	37	100.0%	-0.05 [-0.49, 0.38]	-
Subtotal (95% CI)			45	37	100.0%	-0.05 [-0.49, 0.38]	•
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.23 (P = 0.82)						
							-2 -1 0 1
							Favours treatment Favours co

5.2 Substance use: 2. Level of alcohol use (low=poor)

		Т	reatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup S	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.2.1 3 months							
BURNAM1995	-0.21	0.198	57	47	100.0%	-0.21 [-0.60, 0.18]	-
Subtotal (95% CI)			57	47	100.0%	-0.21 [-0.60, 0.18]	◆
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 1.06 (P = 0.29)						
5.2.2 6 months							
BURNAM1995	-0.064	0.203	49	48	100.0%	-0.06 [-0.46, 0.33]	-
Subtotal (95% CI)			49	48	100.0%	-0.06 [-0.46, 0.33]	◆
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.32 (P = 0.75)						
5.2.3 9 months							
BURNAM1995	-0.212	0.223	45	37	100.0%	-0.21 [-0.65, 0.23]	—
Subtotal (95% CI)			45	37	100.0%	-0.21 [-0.65, 0.23]	
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.95 (P = 0.34)						
	,						
							-2 -1 0 1
							-2 -1 0 1 Favours treatment Favours c

5.3 Substance use: 3. Days used drugs (low=poor)

		Tr	eatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.3.1 3 months							
BURNAM1995	-0.219	0.198	57	47	100.0%	-0.22 [-0.61, 0.17]	
Subtotal (95% CI)			57	47	100.0%	-0.22 [-0.61, 0.17]	*
Heterogeneity: Not ap	oplicable						
Test for overall effect:	: Z = 1.11 (P = 0.27)						
5.3.2 6 months							
BURNAM1995	-0.114	0.203	49	48	100.0%	-0.11 [-0.51, 0.28]	_ _
Subtotal (95% CI)			49	48	100.0%	-0.11 [-0.51, 0.28]	*
Heterogeneity: Not ap	oplicable						
Test for overall effect:	: Z = 0.56 (P = 0.57)						
5.3.3 9 months							
BURNAM1995	-0.044	0.222	45	37	100.0%	-0.04 [-0.48, 0.39]	_ _
Subtotal (95% CI)			45	37	100.0%	-0.04 [-0.48, 0.39]	•
Heterogeneity: Not ap	oplicable						
Test for overall effect:	: Z = 0.20 (P = 0.84)						
							-2 -1 0 1
							Favours treatment Favours co

5.4 Substance use: 4. Severity of drug use (low=poor)

		Т	reatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup S	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.4.1 3 months							
BURNAM1995	-0.138	0.197	57	47	100.0%	-0.14 [-0.52, 0.25]	_ _
Subtotal (95% CI)			57	47	100.0%	-0.14 [-0.52, 0.25]	-
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.70 (P = 0.48)						
5.4.2 6 months							
BURNAM1995	-0.177	0.203	49	48	100.0%	-0.18 [-0.57, 0.22]	
Subtotal (95% CI)			49	48	100.0%	-0.18 [-0.57, 0.22]	◆
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.87 (P = 0.38)						
5.4.3 9 months							
BURNAM1995	-0.16	0.222	45	37	100.0%	-0.16 [-0.60, 0.28]	
Subtotal (95% CI)			45	37	100.0%	-0.16 [-0.60, 0.28]	
Heterogeneity: Not applic	cable						
Test for overall effect: Z =	= 0.72 (P = 0.47)						
							-2 -1 0 1
							Favours treatment Favours c

5.5 Functioning: 1. % time on streets (low=poor)

		Tr	eatment	Control		Std. Mean Difference	Std. Mean Difference
Study or Subgroup S	td. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.5.1 3 months							<u>L</u>
BURNAM1995	0.035	0.197	57	47	100.0%	0.04 [-0.35, 0.42]	-
Subtotal (95% CI)			57	47	100.0%	0.04 [-0.35, 0.42]	•
Heterogeneity: Not applica	able						
Test for overall effect: Z =	= 0.18 (P = 0.86)						
5.5.2 6 months							
BURNAM1995	-0.059	0.203	49	48	100.0%	-0.06 [-0.46, 0.34]	-
Subtotal (95% CI)			49	48	100.0%	-0.06 [-0.46, 0.34]	•
Heterogeneity: Not applica	able						
Test for overall effect: Z =	= 0.29 (P = 0.77)						
5.5.3 9 months							
BURNAM1995	0.1	0.222	45	37	100.0%	0.10 [-0.34, 0.54]	
Subtotal (95% CI)			45	37	100.0%	0.10 [-0.34, 0.54]	*
Heterogeneity: Not applica	able						
Test for overall effect: Z =	= 0.45 (P = 0.65)						
							-2 -1 0 1
							Favours treatment Favours co

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5.6 Functioning: 2. % time in independent housing (low=poor)

		Т	reatment	Control	;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup S	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.6.1 3 months							
BURNAM1995	-0.16	0.197	57	47	100.0%	-0.16 [-0.55, 0.23]	-
Subtotal (95% CI)			57	47	100.0%	-0.16 [-0.55, 0.23]	◆
Heterogeneity: Not applic	able						
Test for overall effect: Z =	= 0.81 (P = 0.42)						
5.6.2 6 months							
BURNAM1995	-0.215	0.204	49	48	100.0%	-0.21 [-0.61, 0.18]	-
Subtotal (95% CI)			49	48	100.0%	-0.21 [-0.61, 0.18]	◆
Heterogeneity: Not applic	able						
Test for overall effect: Z =	= 1.05 (P = 0.29)						
5.6.3 9 months							
BURNAM1995	0.221	0.223	45	37	100.0%	0.22 [-0.22, 0.66]	——
Subtotal (95% CI)			45	37	100.0%	0.22 [-0.22, 0.66]	◆
Heterogeneity: Not applic	able						
Test for overall effect: Z =							
							-2 -1 0 1
							Favours treatment Favours c

1 CBT versus STANDARD CARE (critical outcomes)

1.1 Substance use: 1. Using substances - by 1 month

	Treatment Co		Contr	ol		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rand	om, 95% CI		
1.1.1 alcohol or drugs										
WEISS2009	9	31	18	30	100.0%	0.48 [0.26, 0.90]	-			
Subtotal (95% CI)		31		30	100.0%	0.48 [0.26, 0.90]	•			
Total events	9		18							
Heterogeneity: Not app	licable									
Test for overall effect: 2	Z = 2.28 (P = 0.0	2)							
							0.05 0.2	1 5 20		
							Favours treatment			

1.2 Substance use: 2. Using substances - by 3 months

	Treatm		Contr			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
1.2.1 alcohol							
SCHMITZ2002	7	25	1		100.0%	5.88 [0.79, 44.03]	
Subtotal (95% CI)		25		21	100.0%	5.88 [0.79, 44.03]	
Total events	7		1				
Heterogeneity: Not app	licable						
Test for overall effect: 2	Z = 1.72 (P = 0.0	8)				
1.2.2 drugs							
SCHMITZ2002	12	25	5	21		2.02 [0.85, 4.80]	
Subtotal (95% CI)		25		21	100.0%	2.02 [0.85, 4.80]	
Total events	12		5				
Heterogeneity: Not app	licable						
Test for overall effect: 2	z = 1.58 (P = 0.1	1)				
1.2.3 alcohol or drugs							
WEISS2009	20	31	26		100.0%	0.74 [0.55, 1.00]	
Subtotal (95% CI)		31		30	100.0%	0.74 [0.55, 1.00]	•
Total events	20		26				
Heterogeneity: Not app	licable						
Test for overall effect: 2	z = 1.95 (P = 0.0	5)				
							0.05 0.2 1 5 20
							Favours treatment Favours control
							Tavouro doddinont Tavouro contion

1.3 Substance use: 3. Any substance (skewed data)

	Tre	atmen	t	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
I.3.1 average score (A	ASI) by	3 mon	ths						
WEISS2007	0.2	0.18	31	0.27	0.17	31	100.0%	-0.07 [-0.16, 0.02]	
Subtotal (95% CI)			31			31	100.0%	-0.07 [-0.16, 0.02]	─
Heterogeneity: Not app	licable								
Test for overall effect: 2	Z = 1.57	(P = 0)).12)						
I.3.2 average score (ASI) by	6-9 mc	onths						
WEISS2007	0.18	0.18	31	0.24	0.23	31	100.0%	-0.06 [-0.16, 0.04]	
Subtotal (95% CI)			31			31	100.0%	-0.06 [-0.16, 0.04]	
Heterogeneity: Not app	licable								
Test for overall effect: 2	Z = 1.14	(P = 0)).25)						
1.3.3 days reporting a	ny subs	stance	use (/	ASI) by	3 mon	ths			
WEISS2009	4.4	7.2	31	6.5	7.9	30	100.0%	-2.10 [-5.90, 1.70]	
Subtotal (95% CI)			31			30	100.0%	-2.10 [-5.90, 1.70]	
Heterogeneity: Not app	licable								
Test for overall effect: 2	Z = 1.08	(P = 0).28)						
1.3.5 days reporting a	ny subs	stance	use (/	ASI) by	6 mon	ths			
WEISS2009	5.2	7	31	7.9	10.7	30	100.0%	-2.70 [-7.25, 1.85]	←
Subtotal (95% CI)			31			30	100.0%	-2.70 [-7.25, 1.85]	
Heterogeneity: Not app	licable								
Test for overall effect: 2	Z = 1.16	(P = 0)).25)						
									-4 -2 0 2
									Favours treatment Favours c

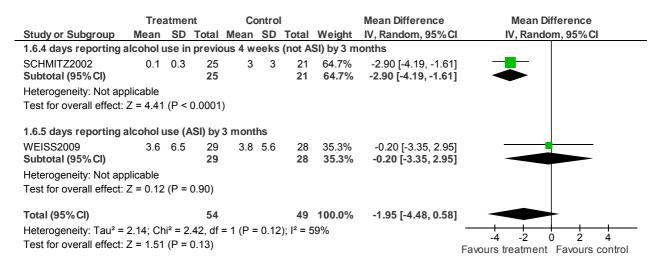
1.4 Substance use: 4. Drugs use - by 3 months (skewed data)

	Trea	atme	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.4.1 days reporting of	drug use	(not	ASI) by	y 3 mor	ths				
SCHMITZ2002	1.9	4	25	1.5	2.4	21	73.3%	0.40 [-1.47, 2.27]	 -
Subtotal (95% CI)			25			21	73.3%	0.40 [-1.47, 2.27]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.42	(P =	0.68)						
1.4.2 days reporting of	drug use	(ASI) by 3 r	nonths					
WEISS2009	2.1	4.2	29	3	7.3	28	26.7%	-0.90 [-4.01, 2.21]	
Subtotal (95% CI)			29			28	26.7%	-0.90 [-4.01, 2.21]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.57	(P =	0.57)						
Total (95% CI)			54			49	100.0%	0.05 [-1.55, 1.66]	
Heterogeneity: Tau ² =	0.00; Ch	i ² = 0	.49, df	= 1 (P =	0.48	3); I ² = (0%		
Test for overall effect:	Z = 0.06	(P =	0.95)	`		•			-4 -2 0 2 4
		,	,						Favours treatment Favours control

1.5 Substance use: 5. Drug use - by 6 months (skewed data)

	Trea	atme	nt	Co	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.5.3 days reporting	drug use	(ASI) by 6 r	nonths					
WEISS2009	2.3	5.4	29	6	10.3	28	100.0%	-3.70 [-7.99, 0.59]	←
Subtotal (95% CI)			29			28	100.0%	-3.70 [-7.99, 0.59]	
Heterogeneity: Not ap	plicable								
Test for overall effect	Z = 1.69	(P =	0.09)						
		•							
									-
									-4 -2 0 2 4
									Favours treatment Favours control

1.6 Substance use: 6. Alcohol use - by 3 months (skewed data)



1.7 Substance use: 7. Alcohol use - by 6 months (skewed data)

	Trea	atme	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
1.7.6 days reporting	alcohol u	ıse (A	ASI) by	6 mont	hs				
WEISS2009 Subtotal (95% CI)	4.2	5.9	29 29	4.2	8	28 28	100.0% 100.0%	0.00 [-3.66, 3.66] 0.00 [-3.66, 3.66]	the state of the s
Heterogeneity: Not ap Test for overall effect:		(P =	1.00)						
									-4 -2 0 2 4 Favours treatment Favours control

2 CBT versus STANDARD CARE (non-critical outcomes) 2.1 Lost to treatment

	Treatm	ent	Contr	ol		Risk Ratio		Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M	-H, Random, 9	95% CI
2.1.1 by 3 months									
EDWARDS2006	1	23	1	24	2.4%	1.04 [0.07, 15.72]	+	-	
SCHMITZ2002	9	25	14	21	49.1%	0.54 [0.30, 0.99]		_	
Subtotal (95% CI)		48		45	51.5%	0.56 [0.31, 1.00]	-		
Total events	10		15						
Heterogeneity: Tau ² =	= 0.00; Chi ²	= 0.22	, df = 1 (F	= 0.64	$rac{1}{2}$); $I^2 = 0\%$				
Test for overall effect	: Z = 1.95 (P = 0.0	5)		,				
	·		•						
2.1.2 by 6 months									
WEISS2007	7	31	14	31	31.1%	0.50 [0.23, 1.07]		-	
WEISS2009	6	31	6	30	17.4%	0.97 [0.35, 2.67]			
Subtotal (95% CI)		62		61	48.5%	0.64 [0.34, 1.19]	-		
Total events	13		20						
Heterogeneity: Tau ² =	= 0.01; Chi ²	= 1.05	, df = 1 (F	= 0.31); I ² = 4%				
Test for overall effect	: Z = 1.42 (P = 0.1	6)						
Total (95% CI)		110		106	100.0%	0.59 [0.39, 0.91]	4		
Total events	23		35						
Heterogeneity: Tau ² =	= 0.00; Chi ²	= 1.37	, df = 3 (F	= 0.71); $I^2 = 0\%$		<u> </u>	0.5 1	2 5
Test for overall effect								0.5 1 reatment Fav	_ 0
	`		•				ravours u	cauncil rav	ours correllor

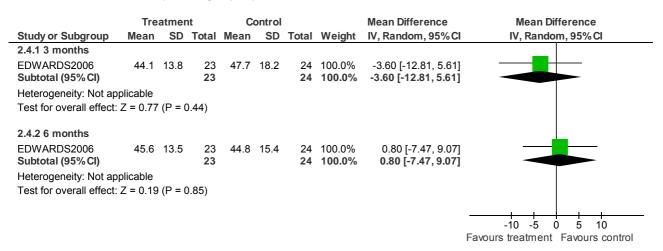
2.2 Lost to treatment - sensitivity analysis (bipolar only)

	Treatm	ent	Control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
2.2.1 by 3 months							
SCHMITZ2002 Subtotal (95% CI)	9	25 25	14	21 21	50.3% 50.3%	0.54 [0.30, 0.99] 0.54 [0.30, 0.99]	
Total events	9		14				
Heterogeneity: Not app	olicable						
Test for overall effect: 2	Z = 2.00 (P = 0.0	5)				
2.2.2 by 6 months							
WEISS2007	7	31	14	31	31.9%	0.50 [0.23, 1.07]	
WEISS2009	6	31	6	30	17.8%	0.97 [0.35, 2.67]	
Subtotal (95% CI)		62		61	49.7%	0.64 [0.34, 1.19]	
Total events	13		20				
Heterogeneity: Tau ² = 0	0.01; Chi ²	= 1.05	, df = 1 (F	= 0.31); I ² = 4%		
Test for overall effect: 2	Z = 1.42 (P = 0.1	6)		•		
Total (95% CI)		87		82	100.0%	0.58 [0.38, 0.90]	•
Total events	22		34				
Heterogeneity: Tau ² = 0		= 1.19	df = 2 (F	= 0.55	$(3); I^2 = 0\%$		
Test for overall effect: 2	-		•	,,,,	,,		0.2 0.5 1 2 5
. ccc. c.oran onoci.		. 0.0	.,			ŀ	Favours treatment Favours control

2.3 Lost to evaluation

	Treatm	Treatment Control				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
2.3.1 by 9 months aft	er start of	f treatn	nent				
EDWARDS2006	7	23	7	24	100.0%	1.04 [0.43, 2.51]	
Subtotal (95% CI)		23		24	100.0%	1.04 [0.43, 2.51]	
Total events	7		7				
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 0.10 (P = 0.9	2)				
							0.1 0.2 0.5 1 2 5 10
							Favours treatment Favours control

2.4 Mental state: 1. Total score (BPRS, high = poor)



2.5 Mental state: 2. Postive symptoms (BPRS, high = poor) (skewed data)

	Trea	atme	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.5.1 3 months									
EDWARDS2006	8.9	4.8	23	9.5	4.5	24	100.0%	-0.60 [-3.26, 2.06]	
Subtotal (95% CI)			23			24	100.0%	-0.60 [-3.26, 2.06]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.44	(P =	0.66)						
2.5.2 6 months									
EDWARDS2006	9.4	4.6	23	8.8	4.8	24	100.0%	0.60 [-2.09, 3.29]	
Subtotal (95% CI)			23			24	100.0%	0.60 [-2.09, 3.29]	
Heterogeneity: Not app	olicable								
Test for overall effect: 2	Z = 0.44	(P =	0.66)						
									-4 -2 0 2 4
									Favours treatment Favours control

2.6 Mental state: 3. Negative symptoms (SANS, high = poor) (skewed data)

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.6.1 3 months									
EDWARDS2006	21.8	14.9	23	23.5	14	24	100.0%	-1.70 [-9.97, 6.57]	
Subtotal (95% CI)			23			24	100.0%	-1.70 [-9.97, 6.57]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.40	(P = ().69)						
2.6.2 6 months									
EDWARDS2006	23.7	17.2	23	19.4	13.5	24	100.0%	4.30 [-4.56, 13.16]	
Subtotal (95% CI)			23			24	100.0%	4.30 [-4.56, 13.16]	
Heterogeneity: Not app Test for overall effect:		(P = 0).34)						
									-10 -5 0 5 10
									Favours treatment Favours control

2.7 Mental state: 4. Depressive symptoms (BDI-SF or HDRS, high = poor) (skewed data)

	Trea	atme	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.7.1 3 months									
EDWARDS2006	6.2	5.9	23	7.8	8.1	24	45.7%	-1.60 [-5.64, 2.44]	
WEISS2009	8.4	6.7	31	11	8	30	54.3%	-2.60 [-6.31, 1.11]	- •
Subtotal (95% CI)			54			54	100.0%	-2.14 [-4.87, 0.59]	
Heterogeneity: Tau ² =	0.00; Ch	ni² = 0	.13, df	= 1 (P =	0.72	(2); 2 = (0%		
Test for overall effect:	Z = 1.54	(P =	0.12)						
2.7.2 6 months									
EDWARDS2006	7.5	6.3	23	6.3	7.2	24	51.6%	1.20 [-2.66, 5.06]	-
WEISS2009	10.1	8.1	31	9.2	7.8	30	48.4%	0.90 [-3.09, 4.89]	- =
Subtotal (95% CI)			54			54	100.0%	1.05 [-1.72, 3.83]	*
Heterogeneity: Tau ² =	0.00; Ch	ni ² = 0	.01, df	= 1 (P =	0.92	(2); I ² = (0%		
Test for overall effect: 2	Z = 0.74	(P =	0.46)						
									-10 -5 0 5 10
									-10 -5 0 5 10

2.8 Mental state: 5. Depressive symptoms (Days reporting symptoms, high = poor) (skewed data)

	Trea	atme	nt	Co	ontro	I		Mean Difference		Mea	n Differ	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% Cl		IV, Ra	ndom, 9	95% CI	
2.8.1 3 months													
SCHMITZ2002 Subtotal (95% CI)	8.0	1.3	25 25	0.7	1.2	21 21	100.0% 100.0 %	0.10 [-0.62, 0.82] 0.10 [-0.62, 0.82]			•		
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.79)										
									-10 Favours	-5 s treatm	0 ent Fa	5 vours co	10 ontrol

2.9 Service use: 1. Outpatient attendance & medication (SURS, skewed data)

	Tre	atmei	nt	Co	ontro	I	;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.9.1 3 months									
EDWARDS2006	13.4	8.8	23	11.8	6.8	24	100.0%	0.20 [-0.37, 0.77]	-
Subtotal (95% CI)			23			24	100.0%	0.20 [-0.37, 0.77]	
Heterogeneity: Not ap	plicable								
Test for overall effect	Z = 0.69	(P = 0	0.49)						
2.9.2 6 months									
EDWARDS2006	11.6	11.4	23	9.3	9.9	24	100.0%	0.21 [-0.36, 0.79]	-
Subtotal (95% CI)			23			24	100.0%	0.21 [-0.36, 0.79]	
Heterogeneity: Not ap	plicable								
Test for overall effect	: Z = 0.72	(P = 0	0.47)						
									-1 -0.5 0 0.5 1
									Favours treatment Favours control

2.10 Adherence: 1. Not adherent with medication - by 3 months

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
SCHMITZ2002	17	25	19	21	100.0%	0.75 [0.56, 1.02]	
Total (95% CI)		25		21	100.0%	0.75 [0.56, 1.02]	
Total events	17		19				
Heterogeneity: Not app Test for overall effect:	P = 0 0	6)				0.5 0.7 1 1.5 2	
TOOL TOT OVERAIL CHECK.	2 1.00 (. 0.0	·,				Favours treatment Favours control

2.11 Adherence: 2. Medication adherence rate

	Tre	atmei	nt	С	ontrol		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
2.11.1 by 3 months									
WEISS2009	92.3	21.4	31	87.8	20.8	30	100.0%	0.21 [-0.29, 0.71]	
Subtotal (95% CI)			31			30	100.0%	0.21 [-0.29, 0.71]	T
Heterogeneity: Not ap	oplicable								
Test for overall effect	: Z = 0.82	2 (P = 0	0.41)						
2.11.2 by 6 months									
WEISS2009	86.7	28.4	31	90	22.5	30	100.0%	-0.13 [-0.63, 0.38]	
Subtotal (95% CI)			31			30	100.0%	-0.13 [-0.63, 0.38]	▼
Heterogeneity: Not ap	oplicable								
Test for overall effect	Z = 0.50	(P = 0	0.62)						
								_	-10 -5 0 5 10
								Fav	ours experimental Favours control

3 MOTIVATIONAL INTERVIEWING versus STANDARD CARE (critical outcomes)

3.1 Substance use: 1. Not abstinent or not improved on all substances - by 12 months

	Treatm	eatment Control				Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl			
KAVANAGH2004	5	13	9	12	100.0%	0.51 [0.24, 1.10]				
Total (95% CI)		13		12	100.0%	0.51 [0.24, 1.10]				
Total events	5		9							
Heterogeneity: Not app Test for overall effect:		P = 0.0	9)				0.1 0.2 0.5 1 2 5 10 Favours treatment Favours control			

3.2 Substance use: 2. Not abstaining from alcohol

	Treatm	Treatment Contro		ol		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI			
3.2.1 by 3 months										
GRAEBER2003	6	15	10	13	100.0%	0.52 [0.26, 1.03]	-			
Subtotal (95% CI)		15		13	100.0%	0.52 [0.26, 1.03]				
Total events	6		10							
Heterogeneity: Not ap	plicable									
Test for overall effect:	Z = 1.86 (P = 0.0	6)							
3.2.2 by 6 months										
GRAEBER2003	5	15	12	13	100.0%	0.36 [0.17, 0.75]	-			
Subtotal (95% CI)		15		13	100.0%	0.36 [0.17, 0.75]				
Total events	5		12							
Heterogeneity: Not ap	plicable									
Test for overall effect:	Z = 2.72 (P = 0.0	06)							
	·		,							
							0.1 0.2 0.5 1 2 5 10			
							Favours treatment Favours control			

3.3 Substance use: 3. Other measures of alcohol use (skewed data)

	Tre	Treatment Control			;	Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
3.3.2 drinking days -	- by 6 mo	nths							
GRAEBER2003 Subtotal (95% CI)	3.1	6.24	15 15	12.73	8.25	13 13	100.0% 100.0 %	-1.29 [-2.12, -0.46] -1.29 [-2.12, -0.46]	the state of the s
Heterogeneity: Not ap									
Test for overall effect	t: Z = 3.06	6 (P = (0.002)						
									-4 -2 0 2 4
									Favours treatment Favours control

4 MOTIVATIONAL INTERVIEWING versus STANDARD CARE (non-critical outcomes) 4.1 Lost to evaluation

	Treatm	ent	Contr	Control		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
4.1.1 less than 3 mon	ths						
GRAEBER2003	0	15	2	15	52.5%	0.20 [0.01, 3.85]	←
KAVANAGH2004	0	13	1	12	47.5%	0.31 [0.01, 6.94]	-
Subtotal (95% CI)		28		27	100.0%	0.25 [0.03, 2.10]	
Total events	0		3				
Heterogeneity: Tau ² =	0.00; Chi ²	= 0.04	df = 1 (F	P = 0.84); I ² = 0%		
Test for overall effect:	Z = 1.28 (P = 0.2	0)				
4.1.2 by 6 months							
GRAEBER2003	0	15	2	15	52.5%	0.20 [0.01, 3.85]	
KAVANAGH2004	0	13	1	12	47.5%	0.31 [0.01, 6.94]	
Subtotal (95% CI)		28		27	100.0%	0.25 [0.03, 2.10]	
Total events	0		3				
Heterogeneity: Tau ² =	0.00; Chi ²	= 0.04	df = 1 (F	P = 0.84); I ² = 0%		
Test for overall effect:	Z = 1.28 (P = 0.2	0)				
4.1.3 by 12 months							
KAVANAGH2004	2	13	6	12	100.0%	0.31 [0.08, 1.24]	
Subtotal (95% CI)		13		12	100.0%	0.31 [0.08, 1.24]	
Total events	2		6				
Heterogeneity: Not app	olicable						
Test for overall effect:		P = 0.1	0)				
							0.1 0.2 0.5 1 2 5 10
							Favours treatment Favours control

5 CBT + MOTIVATIONAL INTERVIEWING versus STANDARD CARE (critical outcomes)

5.1 Death - by about 1 year

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% Cl
BAKER2006	3	65	1	65	26.8%	3.00 [0.32, 28.09]	
BARROWCLOUGH2001	1	18	2	18	25.2%	0.50 [0.05, 5.04]	
BARROWCLOUGH2010	2	163	5	163	48.0%	0.40 [0.08, 2.03]	
Total (95% CI)		246		246	100.0%	0.73 [0.22, 2.41]	
Total events	6		8				
Heterogeneity: Tau ² = 0.09	0.05 0.2 1 5 20						
Test for overall effect: Z = 0	0.52 (P = 0	0.60)					Favours treatment Favours control

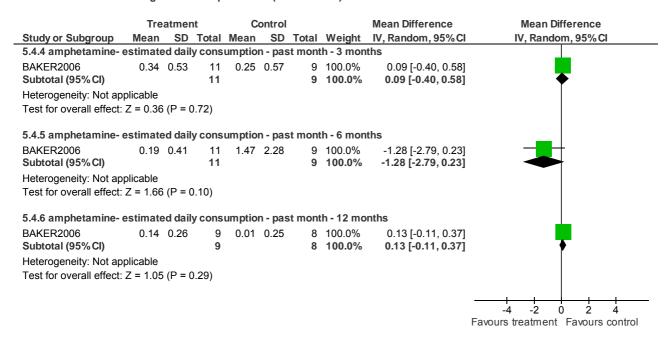
5.2 Substance use: 1. Average number of different drugs used during the past month (OTI, high = poor)

	Tre	atmer	nt	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.2.1 by 3 months									
BAKER2006	2.81	1.08	58	2.44	1.05	61	100.0%	0.37 [-0.01, 0.75]	
Subtotal (95% CI)			58			61	100.0%	0.37 [-0.01, 0.75]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.89	(P = 0	0.06)						
5.2.2 by 6 months									
BAKER2006	2.6	1.14	58	2.41	1.15	61	100.0%	0.19 [-0.22, 0.60]	-
Subtotal (95% CI)			58			61	100.0%	0.19 [-0.22, 0.60]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.90	(P = (0.37)						
		,							
									1 1 1 1 1 1 1
									-0.5 -0.25 0 0.25 0.5
									Favours treatment Favours control

5.3 Substance use: 2. Average score - alcohol (skewed data)

	Tre	atmen	t	Co	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.3.1 alcohol - estima	ated dail	y cons	umptio	on - pas	t mon	th - 3 n	nonths		
BAKER2006 Subtotal (95% CI)	4.92	4.69	21 21	3.35	4.1	31 31	100.0% 100.0 %	1.57 [-0.90, 4.04] 1.57 [-0.90, 4.04]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.25	(P = 0	.21)						
5.3.2 alcohol - estima	ated dail	y cons	umptio	on - pas	t mon	th - 6 n	nonths		_
BAKER2006	3.73	4.07	21	2.52	4.2	31		1.21 [-1.07, 3.49]	
Subtotal (95% CI)			21			31	100.0%	1.21 [-1.07, 3.49]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.04	P = 0	.30)						
5.3.3 alcohol - estima	ated dail	y cons	umptio	on - pas	t mon	th - 12	months		_
BAKER2006	3.58	4.8	18	2.19	3.04	28		1.39 [-1.10, 3.88]	-
Subtotal (95% CI)			18			28	100.0%	1.39 [-1.10, 3.88]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.10	(P = 0)	.27)						
									-4 -2 0 2 4
									Favours treatment Favours control

5.4 Substance use: 3. Average score - amphetamine (skewed data)



5.5 Substance use: 4. Average score - cannabis (skewed data)

	Tre	eatmen	t	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.5.7 cannabis- estim	nated da	ily cons	umpti	on - pas	st mon	th - 3 r	nonths		
BAKER2006 Subtotal (95% CI)	5.09	7.21	39 39	5.66	8.72	34 34	100.0% 100.0 %	-0.57 [-4.27, 3.13] -0.57 [-4.27, 3.13]	
Heterogeneity: Not app Test for overall effect:	•	(P = 0.	76)						
5.5.8 cannabis- estim	nated da	ily cons	umptic	on - pas	st mon	ıth - 6 r	nonths		
BAKER2006 Subtotal (95% CI)	5.37	11.75	39 39	4.67	8.68		100.0% 100.0 %	0.70 [-4.00, 5.40] 0.70 [-4.00, 5.40]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.29	(P = 0.	77)						
5.5.9 cannabis- estim	nated da	ily cons	umptic	on - pas	st mon	ıth - 12	months		
BAKER2006 Subtotal (95% CI)	8.53	14.59	29 29	4.12	6.51	29 29	100.0% 100.0 %	4.41 [-1.40, 10.22] 4.41 [-1.40 , 10.22]	
Heterogeneity: Not app									
Test for overall effect:	Z = 1.49	P = 0.	14)						
									-4 -2 0 2 4 Favours treatment Favours control

5.6 Substance use: 6. Average change in % days abstinent during & after treatment

Study ID	Treatment Group	Mediar	range	N	Notes
BARROWCLOUGH 2001	CBT + MI	19.99	-25.6 to 83.4	17	U=86.5 p<0.03 Non-parametric analysis. Data summed over 4 time periods (to 12 months) and subtracted from baseline.
	TAU	-6.52	-67.9-53.2	15	

5.7 Substance use: 7. TLFB: % days abstinent main substance (skewed data)

	Tre	Treatment			ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.7.7 12 months									
BARROWCLOUGH2010 Subtotal (95% CI)	48.3	37.82	138 138	41.49	37.29	137 1 37	100.0% 100.0%	6.81 [-2.07, 15.69] 6.81 [-2.07 , 15.69]	
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	1.50 (P =	= 0.13)							
5.7.8 18 months									
BARROWCLOUGH2010 Subtotal (95% CI)	47.99	39.45	130 130	49.2	38.68		100.0% 100.0%	-1.21 [-10.74, 8.32] -1.21 [-10.74, 8.32]	
Heterogeneity: Not applica	ble					0	1001070		
Test for overall effect: Z =		= 0.80)							
5.7.9 24 months									
BARROWCLOUGH2010	51.29	39.8	129	48.77	39.69	117	100.0%	2.52 [-7.42, 12.46]	
Subtotal (95% CI)			129			117	100.0%	2.52 [-7.42, 12.46]	
Heterogeneity: Not applica									
Test for overall effect: Z =	0.50 (P =	= 0.62)							
									-20 -10 0 10 20
									Favours treatment Favours control

5.8 Substance use: 8. TLFB: % days abstinent all substance (skewed data)

	Tre	atmen	t	C	ontrol			Mean Difference	Mean Differe	nce
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95	5% CI
5.8.7 12 months										_
BARROWCLOUGH2010	40.24	36.18	137	34.51	34.18	136	100.0%	5.73 [-2.62, 14.08]	+	
Subtotal (95% CI)			137			136	100.0%	5.73 [-2.62, 14.08]		
Heterogeneity: Not applica	able									
Test for overall effect: Z =	1.35 (P =	0.18)								
5.8.8 18 months										
BARROWCLOUGH2010	38.17	37.23	129	38.47	34.94	127	100.0%	-0.30 [-9.14, 8.54]		_
Subtotal (95% CI)			129			127	100.0%	-0.30 [-9.14, 8.54]		-
Heterogeneity: Not applica	able									
Test for overall effect: Z =	0.07 (P =	0.95)								
5.8.9 24 months										
BARROWCLOUGH2010	44.25	38.36	130	37.18	36.89	117	100.0%	7.07 [-2.32, 16.46]	+	_
Subtotal (95% CI)			130			117	100.0%	7.07 [-2.32, 16.46]		
Heterogeneity: Not applica	able									
Test for overall effect: Z =	1.48 (P =	0.14)								
										+
									-20 -10 0	10 2
									Favours treatment Favo	ours cor

5.9 Substance use: 9. Substance use per substance-using day

Study or Subgroup	log[Odds Ratio]	SE	Weight	Odds Ratio IV, Random, 95% CI	Odds Ratio IV, Random, 95% Cl
5.9.1 Main substance	0. 1				
BARROWCLOUGH2010 Subtotal (95% CI)	-0.40546511	0.1676072	100.0% 100.0%	0.67 [0.48, 0.93] 0.67 [0.48, 0.93]	
Heterogeneity: Not applicat	ole				
Test for overall effect: Z = 2	2.42 (P = 0.02)				
5.9.2 All substances					
BARROWCLOUGH2010 Subtotal (95% CI)	-0.39204209	0.1655048	100.0% 100.0 %	0.68 [0.49, 0.93] 0.68 [0.49, 0.93]	
Heterogeneity: Not applicat	ole				
Test for overall effect: Z = 2	2.37 (P = 0.02)				
					0.2 0.5 1 2 5
					Favours treatment Favours control

5.10 Functioning: 1. Average global functioning score (GAF, low = poor)

	Tre	eatmen	t	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95%CI
5.10.1 3 months									
BAKER2006	64.76	12.01	58	67.46	12.22		100.0%	-2.70 [-7.05, 1.65]	
Subtotal (95% CI)			58			61	100.0%	-2.70 [-7.05, 1.65]	
Heterogeneity: Not applica									
Test for overall effect: Z =	1.22 (P =	= 0.22)							
5.10.2 6 months									
BAKER2006	67.43	9.47	58	67.52	10.6	61	100.0%	-0.09 [-3.70, 3.52]	- -
Subtotal (95% CI)			58			61	100.0%	-0.09 [-3.70, 3.52]	•
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	0.05 (P =	= 0.96)							
5.10.3 9 months									
BARROWCLOUGH2001	55.94	10.67	17	47.5	12.11	15	100.0%	8.44 [0.48, 16.40]	
Subtotal (95% CI)			17			15	100.0%	8.44 [0.48, 16.40]	
Heterogeneity: Not applica	ble								
Test for overall effect: Z = 2	2.08 (P =	= 0.04)							
5.10.4 12 months									
BAKER2006	68.45	9.98	44	66.28	11.21	53	36.7%	2.17 [-2.05, 6.39]	 -
BARROWCLOUGH2001	58.41	13.56	17	48.13	15.26	15	13.6%	10.28 [0.22, 20.34]	•
BARROWCLOUGH2010	34.96	9.46	135	35.6	9.36	134	49.7%	-0.64 [-2.89, 1.61]	*
Subtotal (95% CI)			196			202	100.0%	1.87 [-2.36, 6.11]	•
Heterogeneity: Tau ² = 8.08	3; Chi² =	5.20, df	= 2 (P	= 0.07);	$I^2 = 62^{\circ}$	%			
Test for overall effect: Z =	0.87 (P =	= 0.39)							
5.10.5 18-24 months									
BARROWCLOUGH2001	60.12	18.96	15	53.44	13	13	13.1%	6.68 [-5.24, 18.60]	
BARROWCLOUGH2010	35.97	10.93	119	36.18	10.27	115	86.9%	-0.21 [-2.93, 2.51]	-
Subtotal (95% CI)			134			128	100.0%	0.69 [-3.86, 5.25]	•
Heterogeneity: Tau ² = 4.29	,	,	= 1 (P	= 0.27);	$I^2 = 18^9$	%			
Test for overall effect: Z =	0.30 (P =	= 0.77)							
									-20 -10 0 10 20

5.11 Functioning: 2. Average social functioning score (SFS, low = poor)

	Trea	atmen	t	Co	ntrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
5.11.1 by end of 9 month to	reatmen	t							
BARROWCLOUGH2001	105.02	6.42	17	100.01	9.18	15	100.0%	5.01 [-0.55, 10.57]	
Subtotal (95% CI)			17			15	100.0%	5.01 [-0.55, 10.57]	
Heterogeneity: Not applicab	le								
Test for overall effect: Z = 1	.77 (P =	(80.0							
5.11.2 by 12 months (3 mo	onths foll	lowing	j treatr	nent end	l)				_
BARROWCLOUGH2001	108.41	8.35	17	101.14	9.94	15	100.0%	7.27 [0.86, 13.68]	-
Subtotal (95% CI)			17			15	100.0%	7.27 [0.86, 13.68]	
Heterogeneity: Not applicab	le								
Test for overall effect: Z = 2	.22 (P =	0.03)							
									-20 -10 0 10 20
									-20 -10 0 10 20 Favours control Favours treatment
									ravours control ravours treatment

6 CBT + MOTIVATIONAL INTERVIEWING versus STANDARD CARE (non-critical outcomes) 6.1 Lost to evaluation

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
6.2.1 by 3 months						,	,
BAKER2006	5	65	4	65	100.0%	1.25 [0.35, 4.45]	
Subtotal (95% CI)		65			100.0%	1.25 [0.35, 4.45]	
Total events	5		4				
Heterogeneity: Not applica							
Test for overall effect: Z = (73)					
rest for everall effect. 2	0.04 (1 (3.10)					
6.2.2 by 6 months							
BAKER2006	5	65	2	65	100.0%	2.50 [0.50, 12.42]	
Subtotal (95% CI)	J	65	_		100.0%	2.50 [0.50, 12.42]	
Total events	5		2				
Heterogeneity: Not applicate			2				
		36)					
Test for overall effect: Z =	1.12 (F = (J.20)					
6.2.3 by 9 months							
BARROWCLOUGH2001	2	18	3	18	100.0%	0.67 [0.13, 3.53]	
Subtotal (95% CI)	_	18	Ū		100.0%	0.67 [0.13, 3.53]	
Total events	2		3				
Heterogeneity: Not applical			Ū				
Test for overall effect: Z = (1 631					
rest for everall effect. 2	0.40 (1 (3.00)					
6.2.4 by 12 months							
BAKER2006	16	65	10	65	33.9%	1.60 [0.79, 3.26]	
BARROWCLOUGH2001	1	18	3	18	4.5%	0.33 [0.04, 2.91]	
BARROWCLOUGH2010	29	164	29	163	61.6%	0.99 [0.62, 1.59]	
Subtotal (95% CI)		247			100.0%	1.11 [0.70, 1.77]	
Total events	46		42				
Heterogeneity: Tau ² = 0.04	: Chi² = 2.	42. df =	= 2 (P = 0	.30): I²	= 17%		
Test for overall effect: Z = 0	•	,	_ (-	,,	,•		
	(,					
6.2.5 by 18 months							
BARROWCLOUGH2001	3	18	5	18	100.0%	0.60 [0.17, 2.14]	
Subtotal (95% CI)		18		18	100.0%	0.60 [0.17, 2.14]	
Total events	3		5				
Heterogeneity: Not applical							
Test for overall effect: Z = 0		(43)					
	• (. ,	,					
6.2.6 by 24 months							
BARROWCLOUGH2010	35	164	46	163	100.0%	0.76 [0.52, 1.11]	
Subtotal (95% CI)		164		163	100.0%	0.76 [0.52, 1.11]	
Total events	35		46				
Heterogeneity: Not applical	ble						
Test for overall effect: Z =		0.15)					
	•	,					
							0.1 0.2 0.5 1 2 5 10
							Favours treatment Favours control

6.3 Mental state: 1. Relapse

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
6.3.1 by end of 9 month tre	atment p	hase					
BARROWCLOUGH2001	5	18	10	18	100.0%	0.50 [0.21, 1.17]	-
Subtotal (95% CI)		18		18	100.0%	0.50 [0.21, 1.17]	
Total events	5		10				
Heterogeneity: Not applicab	le						
Test for overall effect: Z = 1.	.59 (P = 0).11)					
6.3.2 by 3 months after tre	atment f	inished	d (12 mor	nths)			
BARROWCLOUGH2001	6	18	12	18	100.0%	0.50 [0.24, 1.04]	-
Subtotal (95% CI)		18		18	100.0%	0.50 [0.24, 1.04]	
Total events	6		12				
Heterogeneity: Not applicab	le						
Test for overall effect: Z = 1.	.86 (P = 0	0.06)					
6.3.3 by 9-12 months after	treatme	nt finis	hed (18-2	24 mor	nths)		
BARROWCLOUGH2001	7	18	12	18	35.4%	0.58 [0.30, 1.13]	
BARROWCLOUGH2010	63	161	61	161	64.6%	1.03 [0.78, 1.36]	
Subtotal (95% CI)		179		179	100.0%	0.84 [0.49, 1.44]	•
Total events	70		73				
Heterogeneity: Tau ² = 0.10;	Chi ² = 2.	42, df =	1 (P = 0	.12); I²	= 59%		
Test for overall effect: Z = 0.	.62 (P = 0).53)					
	,	•					
							0.01 0.1 1 10 10
							Favours treatment Favours control

6.4 Mental state: 2. Total score (PANSS, high = poor)

	Tre	eatmen	t	C	Control			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
6.4.1 by 9 months									
BARROWCLOUGH2001 Subtotal (95% CI)	58.94	11.44	17 17	65.53	15.28	15 15	100.0% 100.0%	-0.48 [-1.19, 0.23] -0.48 [-1.19, 0.23]	•
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	1.33 (P =	= 0.18)							
6.4.2 by 12 months									
BARROWCLOUGH2001	56.88	14.23	17	63.4	17.96	15	33.2%	-0.40 [-1.10, 0.31]	-
BARROWCLOUGH2010 Subtotal (95% CI)	57.82	14.1	137 154	55.3	12.98	137 152	66.8% 100.0%	0.19 [-0.05, 0.42] -0.01 [-0.54, 0.53]	•
Heterogeneity: Tau ² = 0.10); Chi² =	2.36, df	= 1 (P	= 0.12);	; I ² = 58	%			
Test for overall effect: Z =	0.03 (P =	= 0.98)							
6.4.3 by 18-24 months									
BARROWCLOUGH2001	52.2	11.12	15	58.5	15.04	14	35.9%	-0.47 [-1.21, 0.27]	-
BARROWCLOUGH2010 Subtotal (95% CI)	54.56	14.7	129 144	51.85	11.57	118 132	64.1% 100.0 %	0.20 [-0.05, 0.45] -0.04 [-0.67, 0.59]	
Heterogeneity: Tau ² = 0.14 Test for overall effect: Z =			= 1 (P	= 0.09);	$I^2 = 65^\circ$	%			
									-10 -5 0 5 10 Favours treatment Favours control

6.5 Mental state: 3. General symptoms (BPRS/PANSS, high = poor)

	Tre	atmei	nt	C	Control		;	Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
6.5.1 by 3 months									<u></u>
BAKER2006	35.31	9.04	58	34.46	11.24	61	100.0%	0.08 [-0.28, 0.44]	
Subtotal (95% CI)			58			61	100.0%	0.08 [-0.28, 0.44]	•
Heterogeneity: Not applica	ıble								
Test for overall effect: Z =	0.45 (P :	= 0.65))						
6.5.2 by 6 months									<u>L</u>
BAKER2006	35.47	9.34	58	34.52	8.53	61	100.0%	0.11 [-0.25, 0.47]	
Subtotal (95% CI)			58			61	100.0%	0.11 [-0.25, 0.47]	•
Heterogeneity: Not applica Test for overall effect: Z =		= 0.56))						
6.5.3 by 12 months									
BAKER2006	35.43	8.59	44	32.58	8.19	53	25.9%	0.34 [-0.06, 0.74]	<u> </u>
BARROWCLOUGH2010	29.85	7.52	137	27.74	6.94	137	74.1%	0.29 [0.05, 0.53]	
Subtotal (95% CI)			181			190	100.0%	0.30 [0.10, 0.51]	◆
Heterogeneity: Tau² = 0.00 Test for overall effect: Z =	-		•	P = 0.84	·); I ² = 0	%			
6.5.4 by 18-24 months									
BARROWCLOUGH2001	21.13	6.39	15	30.07	8.17	14	46.5%	-1.19 [-1.99, -0.39]	
BARROWCLOUGH2010	27.87	7.8	129	25.84	6.44	118	53.5%	0.28 [0.03, 0.53]	_ =
Subtotal (95% CI)			144			132	100.0%	-0.40 [-1.84, 1.04]	
Heterogeneity: Tau ² = 0.99	9; Chi² =	11.85,	df = 1	(P = 0.0)	006); I ²	= 92%			
Test for overall effect: Z =	0.55 (P	= 0.58))						
									-4 -2 0 2
									Favours treatment Favours control

6.6 Mental state: 4. Positive symptoms (PANSS, high = poor)

	Tre	atmer	nt	C	ontrol		;	Std. Mean Difference	Std. Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI		IV, Ra	ndom, 95%	GCI	
6.6.1 by 9 months													
BARROWCLOUGH2001	15.29	4.69	17	16.4	4.29	15	100.0%	-0.24 [-0.94, 0.46]					
Subtotal (95% CI)			17			15	100.0%	-0.24 [-0.94, 0.46]			*		
Heterogeneity: Not applica	ble												
Test for overall effect: Z =	0.67 (P =	= 0.50)											
6.6.2 by 12 months													
BARROWCLOUGH2001	13.35	4.57	17	16.07	5.54	15	29.5%	-0.53 [-1.23, 0.18]			-		
BARROWCLOUGH2010	14.62	4.85	137	14.59	5.35	137	70.5%	0.01 [-0.23, 0.24]					
Subtotal (95% CI)			154			152	100.0%	-0.15 [-0.63, 0.32]			•		
Heterogeneity: Tau ² = 0.07	7; Chi² =	1.95, c	df = 1 (F	P = 0.16	i); 2 =	49%							
Test for overall effect: Z =	0.62 (P =	= 0.53)											
6.6.3 by 18-24 months													
BARROWCLOUGH2001	13.87	4.27	15	12.93	4.23	14	10.5%	0.21 [-0.52, 0.95]			-		
BARROWCLOUGH2010	14.07	5.38	129	13.55	5.22	118	89.5%	0.10 [-0.15, 0.35]					
Subtotal (95% CI)			144			132	100.0%	0.11 [-0.13, 0.35]			7		
Heterogeneity: Tau ² = 0.00); Chi² =	0.09, c	df = 1 (F	o = 0.77	'); ² =	0%							
Test for overall effect: Z =	0.91 (P =	= 0.36)											
									—				
									-10	-5	0	5	10
									Favou	rs treatm	ent Favou	rs conti	rol

6.7 Mental state: 5. Negative symptoms (PANSS/BPRS, high = poor)

	Treatment			C	ontrol			Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
6.7.1 by 3 months									<u></u>		
BAKER2006	6.24	2.1	58	6.48	2.47		100.0%	-0.10 [-0.46, 0.26]			
Subtotal (95% CI)			58			61	100.0%	-0.10 [-0.46, 0.26]	₹		
Heterogeneity: Not applica											
Test for overall effect: Z =	0.57 (P =	= 0.57)									
6.7.2 by 6 months									<u></u>		
BAKER2006	6	1.52	58	6.08	1.54	61	100.0%	-0.05 [-0.41, 0.31]			
Subtotal (95% CI)			58			61	100.0%	-0.05 [-0.41, 0.31]	▼		
Heterogeneity: Not applica	ble										
Test for overall effect: Z =	0.28 (P =	= 0.78)									
6.7.3 by 9 months											
BARROWCLOUGH2001	12.47	4.12	17	16.2	4.87	15	100.0%	-0.81 [-1.54, -0.08]			
Subtotal (95% CI)			17			15	100.0%	-0.81 [-1.54, -0.08]	•		
Heterogeneity: Not applica	ble										
Test for overall effect: Z =	2.19 (P =	= 0.03)									
6.7.4 by 12 months											
BAKER2006	12.65	4 97	17	14.67	6.02	15	7.8%	-0.36 [-1.06, 0.34]	_		
BARROWCLOUGH2001		1.36	44		2.35	53	23.9%	0.14 [-0.26, 0.54]	₩		
BARROWCLOUGH2010	13.36		137	12.97		137	68.3%	0.09 [-0.15, 0.33]			
Subtotal (95% CI)			198			205	100.0%	0.07 [-0.13, 0.26]	▼		
Heterogeneity: Tau ² = 0.00); Chi² =	1.59, c	df = 2 (F	P = 0.45	j); 2 =	0%					
Test for overall effect: Z =	0.67 (P =	= 0.51)									
6.7.5 by 18-24 months											
BARROWCLOUGH2001	10.27	2.25	15	15.5	5.71	14	45.0%	-1.19 [-1.99, -0.39]	-		
BARROWCLOUGH2010	12.62	4.24	129	12.46	3.78	118	55.0%	0.04 [-0.21, 0.29]	, p		
Subtotal (95% CI)			144			132	100.0%	-0.51 [-1.71, 0.68]	•		
Heterogeneity: Tau ² = 0.66	6; Chi² =	8.25, c	df = 1 (F	o.00	4); l² =	= 88%					
Test for overall effect: Z =	0.84 (P =	= 0.40)									
									-10 -5 0 5 10		
									Favours treatment Favours control		

6.8 Mental state: 6. Depressive symptoms (BDI-11, high = poor)

Study or Subgroup 6.8.1 by 3 months BAKER2006 Subtotal (95% CI)		12.51	Total 58	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
BAKER2006		12.51	58						
		12.51	58						
Subtotal (95% CI)	dicable			10.93	10.43	61	100.0%	0.52 [0.15, 0.88]	-
	dicable		58			61	100.0%	0.52 [0.15, 0.88]	
Heterogeneity: Not app	nicable								
Test for overall effect: 2	Z = 2.78	(P = 0.	005)						
6.8.2 by 6 months									
BAKER2006	14 1	11.38	58	9.92	9.29	61	100.0%	0.40 [0.04, 0.76]	
Subtotal (95% CI)	17.1	11.50	58	0.02	3.23	61	100.0%	0.40 [0.04, 0.76]	
Heterogeneity: Not app	licable								
Test for overall effect: 2		(P = 0.	03)						
6.8.3 by 12 months									
BAKER2006	17.14	13.2	44	9.68	10.3	53	100.0%	0.63 [0.22, 1.04]	
Subtotal (95% CI)			44			53	100.0%	0.63 [0.22, 1.04]	
Heterogeneity: Not app	licable								
Test for overall effect: 2		(P = 0.	002)						
		`	,						
								+ -2	-1 0 1
								_	rvours treatment Favours co

6.9 Mental state: 7. Manic symptoms (BPRS, high = poor)

	Tre	atmer	nt	С	ontrol		;	Std. Mean Difference	Std. Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
6.9.1 by 3 months											
BAKER2006 Subtotal (95% CI)	6.43	2.46	58 58	7.39	3.51	61 61	100.0% 100.0%	-0.31 [-0.68, 0.05] -0.31 [-0.68, 0.05]	♦		
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 1.70	(P = 0	0.09)								
6.9.2 by 6 months											
BAKER2006 Subtotal (95% CI)	6.38	2.23	58 58	6.57	3.56	61 61	100.0% 100.0 %	-0.06 [-0.42, 0.30] -0.06 [-0.42, 0.30]	•		
Heterogeneity: Not ap	plicable										
Test for overall effect:	•	(P = 0	0.73)								
6.9.3 by 12 months											
BAKER2006 Subtotal (95% CI)	6.07	1.63	44 44	6.18	2.32	53 53	100.0% 100.0%	-0.05 [-0.45, 0.35] -0.05 [-0.45, 0.35]	•		
Heterogeneity: Not ap	plicable										
Test for overall effect:	•	(P = 0).79)								
									-10 -5 0 5 1		
									Favours treatment Favours control		

6.10 Mental state: 8. Number admitted to hospital in FU (including those in hospital at the point of FU)

	Treatm	ent	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
6.10.3 by 12 months after	treatme	nt finisl	ned (24 n	nonths)		
BARROWCLOUGH2010 Subtotal (95% CI)	36	163 163	28	163 163	100.0% 100.0 %	1.29 [0.83, 2.00] 1.29 [0.83, 2.00]	
Total events Heterogeneity: Not applica Test for overall effect: Z =		0.27)	28				
							0.01 0.1 1 10 100 Favours treatment Favours control

7 GROUP PSYCHOTHERAPY versus STANDARD CARE (critical outcomes)

7.1 Substance use: 1. Average score - C-DIS-R Drugs (skewed data)

	Treati	ment	C	ontrol		Mean Difference Mean Difference		
Study or Subgroup	Mean	SD Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
7.1.1 C-DIS-R drugs b	y 6 month	าร						
JERRELL1995 Subtotal (95% CI)	1.85 2	.74 21 21	4.84	5.69	25 25	100.0% 100.0%	-2.99 [-5.51, -0.47] -2.99 [-5.51, -0.47]	
Heterogeneity: Not app	plicable							
Test for overall effect:	Z = 2.33 (F	P = 0.02						
7.1.2 C-DIS-R drugs b	y 12 mont	ths						_
JERRELL1995	3.52 3		5.99	7.46		100.0%	-2.47 [-5.76, 0.82]	
Subtotal (95% CI)		21			25	100.0%	-2.47 [-5.76, 0.82]	
Heterogeneity: Not app	plicable							
Test for overall effect:	Z = 1.47 (F	P = 0.14)						
7.1.3 C-DIS-R drugs b	y 18 mont	ths						
JERRELL1995	1.43	2.7 7	2.22	3.46	18		-0.79 [-3.35, 1.77]	the control of the co
Subtotal (95% CI)		7			18	100.0%	-0.79 [-3.35, 1.77]	
Heterogeneity: Not app	plicable							
Test for overall effect:	Z = 0.60 (F	P = 0.55						
								-4 -2 0 2 4 Favours treatment Favours control

7.2 Substance use: 2. Average score - C-DIS-R Alcohol (skewed data)

	Tre	atmei	nt	C	ontrol			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI		
7.2.4 C-DIS-R alcoho	l by 6 m	onths									
JERRELL1995	0.99	1.92	21	2.8	3.49	25	100.0%	-1.81 [-3.41, -0.21]	-		
Subtotal (95% CI)			21			25	100.0%	-1.81 [-3.41, -0.21]	•		
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 2.22	2 (P = 0	0.03)								
7.2.5 C-DIS-R alcoho	l by 12 n	onths	i								
JERRELL1995	2.24	2.83	21	2.95	3.5	25	100.0%	-0.71 [-2.54, 1.12]	———		
Subtotal (95% CI)			21			25	100.0%	-0.71 [-2.54, 1.12]	-		
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 0.76	6 (P = 0	0.45)								
7.2.6 C-DIS-R alcoho	l by 18 n	nonth	6								
JERRELL1995	1.43	2.7	7	1.39	2.52	18	100.0%	0.04 [-2.27, 2.35]	 _		
Subtotal (95% CI)			7			18	100.0%	0.04 [-2.27, 2.35]	•		
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 0.03	B (P = 0	0.97)								
									-4 -2 0 2 4		
									Favours treatment Favours contr		

7.3 Functioning: 1. Average role functioning score (RFS, high = better functioning)

	Treatment Control							Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
7.3.1 by 6 months									
JERRELL1995 Subtotal (95% CI)	12.77	3.98	22 22	12.16	3.84	25 25	100.0% 100.0%	0.61 [-1.63, 2.85] 0.61 [-1.63, 2.85]	*
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.53	(P = 0	0.59)						
7.3.2 by 12 months									_
JERRELL1995 Subtotal (95% CI)	13.09	4.3	22 22	12.02	3.32	25 25	100.0% 100.0 %	1.07 [-1.15, 3.29] 1.07 [-1.15, 3.29]	-
Heterogeneity: Not app Test for overall effect:		(P = 0).34)						
7.3.3 by 18 months									_
JERRELL1995 Subtotal (95% CI)	10.89	3.99	7 7	13.44	4.78	18 18	100.0% 100.0 %	-2.55 [-6.24, 1.14] -2.55 [-6.24, 1.14]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 1.35	(P = 0).18)						
									-10 -5 0 5 10 Favours control Favours treatment

7.4 Functioning: 2. Average social adjustment score (SAS, high = better functioning)

	Tre	atmen	t	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
7.4.1 by 6 months									
JERRELL1995	74.65	11.17	22	75.57	8.17	25	100.0%	-0.92 [-6.58, 4.74]	•
Subtotal (95% CI)			22			25	100.0%	-0.92 [-6.58, 4.74]	•
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.32	(P = 0.	75)						
7.4.2 by 12 months									
JERRELL1995	75.68	10.78	22	73.1	9.99	25	100.0%	2.58 [-3.39, 8.55]	
Subtotal (95% CI)			22			25	100.0%	2.58 [-3.39, 8.55]	*
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.85	(P = 0.	40)						
7.4.3 by 18 months									
JERRELL1995	71.58	12.63	7	76.24	10.9	18	100.0%	-4.66 [-15.29, 5.97]	-
Subtotal (95% CI)			7			18	100.0%	-4.66 [-15.29, 5.97]	→
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.86	(P = 0.	39)						
									-50 -25 0 25 5
									Favours control Favours treatm

7.5 Service use: 1. Days in hospital (skewed data)

	Tre	atmei	nt	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
HELLERSTEIN1995	5.4	10.4	16	3.6	6.7	13	100.0%	1.80 [-4.46, 8.06]	-
Total (95% CI)			16			13	100.0%	1.80 [-4.46, 8.06]	•
Heterogeneity: Not ap Test for overall effect:	•	6 (P = 0	0.57)						-20 -10 0 10 20 Favours treatment Favours control

8 GROUP PSYCHOTHERAPY versus STANDARD CARE (non-critical outcomes) 8.1 Lost to treatment

	Treatment Control				Risk Ratio Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI			
8.1.1 by 6 months										
HELLERSTEIN1995	7	23	15	24	100.0%	0.49 [0.24, 0.97]				
JERRELL1995	0	22	0	25		Not estimable	_			
Subtotal (95% CI)		45		49	100.0%	0.49 [0.24, 0.97]				
Total events	7		15							
Heterogeneity: Not app	licable									
Test for overall effect: 2		P = 0.0	4)							
0.4.0 h40 m. amth.a										
8.1.2 by 12 months							_			
HELLERSTEIN1995	12	23	18	24	100.0%	0.70 [0.44, 1.10]				
JERRELL1995	0	22	0	25	400.00/	Not estimable	<u> </u>			
Subtotal (95% CI)		45		49	100.0%	0.70 [0.44, 1.10]				
Total events	12		18							
Heterogeneity: Not app	licable									
Test for overall effect: 2	Z = 1.57 (P = 0.1	2)							
8.1.3 by 18 months										
JERRELL1995	15	22	7	25	100.0%	2.44 [1.22, 4.86]				
Subtotal (95% CI)		22		25	100.0%	2.44 [1.22, 4.86]				
Total events	15		7							
Heterogeneity: Not app	licable									
Test for overall effect: 2		P = 0.0	1)							
	`		•							
							<u> </u>	1		
							0.2 0.5 1 2 5)		
							Favours treatment Favours control			

9 CONTINGENCY MANAGEMENT versus STANDARD CARE (critical outcomes)

9.1 Substance use: 1. Number of days/weeks of drug use (confirmation by urine drug screen)

			Treatment	Control		Std. Mean Difference		Std. Mea	n Differ	ence	
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI				
9.1.1 days of cocaine	e use										
TRACY2007	-1.04	0.39	15	15	100.0%	-1.04 [-1.80, -0.28]					
Subtotal (95% CI)			15	15	100.0%	-1.04 [-1.80, -0.28]					
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 2.67 (P = 0.008)										
							<u>-2</u>		+	+	2
							_	s treatmer	it Favo	urs con	_

9.2 Substance use: 2. Number of days/weeks of alcohol use (confirmation by breathalyser)

Study or Subgroup Std. Mean Difference		Treatment SE Total		Control Total	Std. Mean Difference Weight IV, Random, 95% CI					
9.2.1 weeks of alcoho	ol use				<u> </u>	, ,	, ,			
RIES2004 Subtotal (95% CI)	-1.16	0.34	22 22	19 19	50.0% 50.0%	-1.16 [-1.83, -0.49] -1.16 [-1.83, -0.49]				
Heterogeneity: Not app	olicable									
Test for overall effect: 2	Z = 3.41 (P = 0.0006)									
9.2.2 days of alcohol u	use									
TRACY2007 Subtotal (95% CI)	-1.25	0.34	15 15	15 15	50.0% 50.0 %					
Heterogeneity: Not app Test for overall effect: 2										
Total (95% CI)			37	34	100.0%	-1.21 [-1.68, -0.73]	•			
Heterogeneity: Tau ² = 0 Test for overall effect: 2	0.00; Chi ² = 0.04, df = 1 ($Z = 5.01 \text{ (P} < 0.00001)$	(P = 0.8	85); I ² = 0%				-2 -1 0 1 2 Favours treatment Favours control			

9.3 Substance use: 3. Number of days/weeks using both drugs and alcohol (confirmation by urine or breathalyser)

	0.11		reatment			Std. Mean Difference	Std. Mean Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Random, 95% CI
9.3.1 weeks of subst	tance use						
RIES2004	-0.82	0.33	22	19	100.0%	-0.82 [-1.47, -0.17]	
Subtotal (95% CI)			22	19	100.0%	-0.82 [-1.47, -0.17]	
Heterogeneity: Not ap	plicable						
Test for overall effect:	Z = 2.48 (P = 0.01)						
							$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
							Favours treatment Favours control

9.4 Substance use: 4. Alcohol positive breathalyser samples

		1	reatment	Control		Std. Mean Difference	Std. Mean	Difference
Study or Subgroup	Std. Mean Difference	SE	Total	Total	Weight	IV, Random, 95% CI	IV, Rando	m, 95% CI
TRACY2007	-1.97	0.54	15	15	100.0%	-1.97 [-3.03, -0.91]	←	
Total (95% CI)			15	15	100.0%	-1.97 [-3.03, -0.91]		
Heterogeneity: Not applicable Test for overall effect: Z = 3.65 (P = 0.0003)							-2 -1 C) 1 2 Favours control